

2012 Greenhouse Gas Emissions Inventory Report

Prepared for:

Overseas Private Investment Corporation

Prepared by:



FINAL REPORT

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INTRODUCTION

SC&A, Inc. (SC&A) performed an independent assessment of greenhouse gas (GHG) emissions of projects supported by the Overseas Private Investment Corporation (OPIC). GHGs are atmospheric compounds that absorb and emit solar radiation in the thermal infrared range. Increases in the atmospheric concentrations of GHGs have been linked to changes in the global climate with adverse impacts to human and natural systems. In response to the challenges posed by climate change, initiatives are being developed to assess and abate GHG emissions from anthropogenic sources.

OPIC annually commissions the development of a GHG inventory of projects it supports that are determined to be significant sources of carbon pollution. This report, prepared by SC&A, presents the analysis undertaken to quantify calendar year 2012 GHG emissions from OPIC-supported projects that were active as of September 30, 2013, and emit over 25,000 short tons of carbon dioxide equivalent (CO₂e). “Active” projects are defined as all insurance contracts in force and all guaranty and direct loans with an outstanding principal balance.

This is the first year that SC&A has prepared the annual GHG inventory report for OPIC. Previous assessments, including the 2007 baseline inventory, were performed by Pace Global.

BASELINE INVENTORY DEVELOPMENT

A baseline GHG inventory was completed in March 2009 based on project activity recorded during calendar year 2007. The list of active projects that serve as the initial input for the baseline inventory is presented in Appendix A – 2007 Active Projects.

The baseline inventory accounted for projects having a maximum Potential-to-Emit (PTE) of more than 100,000 short tons of direct CO₂e emissions. Projects exceeding the reporting threshold pertained to the energy, oil and gas, transportation, mining, manufacturing, and construction sectors. The baseline inventory excluded direct biogenic emissions, accidental chemical releases, and project construction emissions. Also excluded were indirect emissions related to purchased electricity, heating or steam. For that reason, projects in the finance, banking, insurance, and service sectors were excluded from the GHG inventory boundary given that their carbon footprint is driven by indirect energy purchases.

The maximum PTE was estimated based on best available project information, which typically included a combination of fuel consumption data, the amount of electricity generated, generating capacity, relative project sizes, and an assumed operating capacity of 8,000 hours per year (unless otherwise noted). OPIC solicited feedback from the individual project applicants on methods, assumptions, and 2007 operational emissions data to corroborate the soundness of emission estimates.

The 2007 GHG inventory (OPIC 2007) leveraged project applicant-provided information in cases where OPIC received responses to the requests for data. For projects where applicant feedback was not received, emission estimates were developed based on a project’s maximum PTE. The inventory also incorporated a five-percent buffer to capture potential emissions from projects emitting less than 100,000 short tons CO₂e per year.

In the 2009 GHG inventory report (OPIC 2009), the original 2007 emissions baseline was revised up by 1,566,685 short tons CO₂e to account for the additional 51 percent share of the Various Egypt Subsidiaries (Apache) project, which mistakenly reported its emissions in relation to its equity share of the project (i.e., 49 percent) for the baseline year. Since OPIC requires that 100 percent of emissions be accounted for,



regardless of the project applicant's equity share, the additional project emissions were added to the inventory. The discrepancy was rectified and reported in 2009 to ensure consistency with OPIC's GHG accounting methodology. The revised 2007 emission baseline was **51,949,179** short tons of CO₂e.

2008-2011 INVENTORIES

For the 2008 GHG inventory (OPIC 2008), Pace Global followed the same process as for the baseline inventory development. The 2008 emission estimates were eventually revised up to account for a misallocation of Apache's GHG emissions, as discussed above. The revised 2008 GHG emissions total for projects active as of September 30, 2009 equaled **35,097,140** short tons of CO₂e.

For the 2009 GHG inventory (OPIC 2009), OPIC lowered the minimum reporting threshold to projects emitting 25,000 or more short tons of CO₂e per year. The five-percent buffer applied in 2007 and 2008 was modified to discount the contribution of projects emitting between 25,000 and 100,000 short tons of CO₂e. Total GHG emissions for projects active as of September 30, 2010 equaled **33,952,754** short tons of CO₂e.

The 2010 and 2011 inventories followed the inventory development process adopted in the 2009 GHG inventory. Total 2010 GHG emissions for projects active as of September 30, 2011 equaled **34,543,566**; Total 2011 GHG emissions for projects active as of September 30, 2012 equaled **34,130,763** short tons of CO₂e.

2012 INVENTORY SUMMARY

For the 2012 GHG inventory, SC&A applied the same GHG accounting procedures as for the 2011 GHG inventory (OPIC 2011). Projects that were determined to have a maximum PTE below 25,000 short tons CO₂e in prior GHG emission assessments were excluded from the 2012 inventory. Additional scrutiny was given to projects previously identified as reportable as well as new projects to OPIC's portfolio that became active as of September 30, 2013.

The outcome of the screening analysis resulted in a short list of projects having a maximum PTE value equal or greater than 25,000 short tons of CO₂e per year. To provide assurance of GHG estimates, OPIC and SC&A solicited additional supporting evidence in the form of an information request letter to project applicants to corroborate GHG assertions and assumptions made by individual applicants. Applicants were given 30 days to provide additional project details and feedback.

Similar to the methodology used in previous years, SC&A incorporated a buffer to account for projects below the reporting emission threshold of 25,000 short tons of CO₂e. The estimated total for OPIC's 2012 GHG inventory is **10,013,867** short tons of CO₂e. The large decrease in emissions relative to previous GHG inventories was primarily due to seven (7) power generation projects becoming inactive in OPIC's portfolio in 2012, while only much smaller sources became active in the same time period.

METHODOLOGY

INVENTORY SCOPE

The scope of the 2012 inventory covered direct emissions, most notably from fossil fuel combustion, associated with active projects having a maximum PTE over 25,000 short tons of CO_{2e} per year. “Active” projects are defined as all insurance contracts in force and all guaranty and direct loans with an outstanding principal balance at the end of OPIC’s last fiscal year (i.e., September 30, 2013). Excluded from the scope of the inventory were direct biogenic emissions, refrigerant losses, chemical releases as well as indirect emissions related to purchased electricity, purchased steam or emissions from a project’s construction.

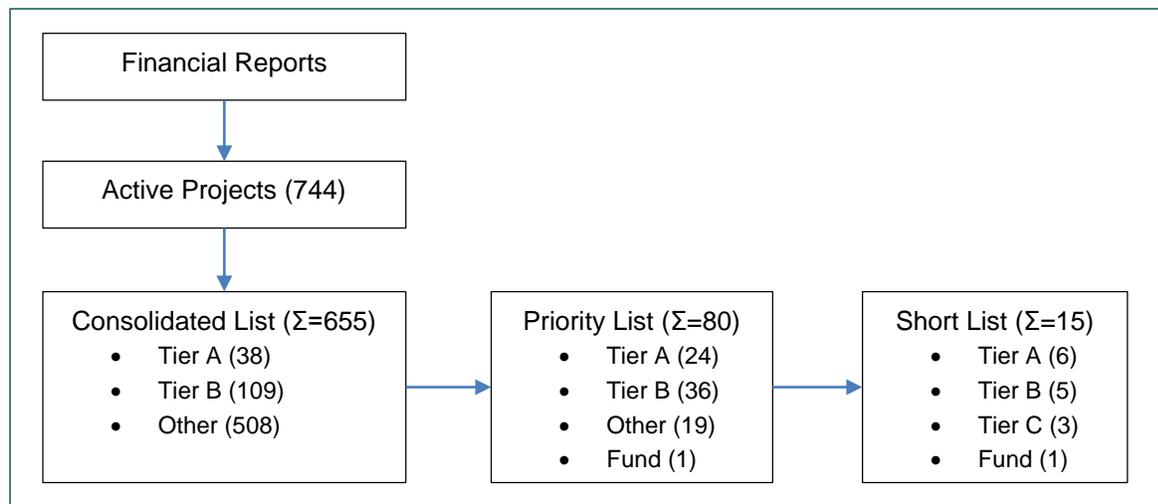
INVENTORY STRUCTURE

The reportable projects in the 2012 GHG inventory are organized into three tiers and a regional fund. *Tier A* projects are fossil fuel-fired, power generation projects that emit more than 100,000 short tons of CO_{2e}. *Tier B* projects are defined as projects in the oil and gas, mining, transportation, manufacturing, construction, or other sectors which have maximum PTE emissions equal or greater than 100,000 short tons per year. *Tier C* projects are those projects that emit less than 100,000 short tons of CO_{2e}, but at least 25,000 short tons of CO_{2e}. The regional fund, namely the *Latin American Power III Fund*, relates to various investments in power generation projects. Additionally, the 2012 GHG inventory includes an approximation of GHG emissions from projects determined to be below the reporting threshold of 25,000 short tons of CO_{2e} denoted as *Buffer for Additional Sources*.

PROJECT SCREENING

SC&A reviewed financial and technical documentation provided by OPIC to identify the subset of projects meeting OPIC’s reporting criteria. The review and analysis of this documentation was conducted in several steps as shown in Figure 1; note that the values in parenthesis indicate the number of projects assessed in each step of the process for a given category.

Figure 1. Project Screening Process



The starting point for the 2012 GHG Inventory was a set of financial reports containing loan information for projects active as of September 30, 2013. SC&A consolidated this information and extracted the set of projects that exhibited a financial exposure greater than zero. This first step resulted in a set of 744 entries

that reflects the pool of **active projects** for consideration in the current inventory cycle. The list of 2012 active projects is tabulated as an informational item under Appendix B – 2012 Active Projects. The second step consisted of developing a **consolidated list** of active projects by grouping entries that shared a common loan name and country location. The resulting 655 entries were then classified into Tier A, Tier B, or Other according to their economic sector. Entries classified as “Other” were projects in the agriculture, communications, finance, services, and tourism sectors. Third, SC&A developed a **priority list** of 80 projects by removing entries that were determined to be non-reportable in the 2011 GHG Inventory as well as excluding projects in the finance, banking, insurance, and service sectors because their emissions are the result of indirect energy purchases (e.g. purchased electricity or steam)—activities that fall outside of OPIC’s inventory scope. Finally, SC&A performed project-specific GHG assessments to ascertain which projects emitted or had a maximum PTE of at least 25,000 short tons of CO₂e. The outcome of this final step was a **short list** of 15 entries, which is presented in Table 1 along with projects that were deemed reportable in past inventories, but were no longer active for this 2012 GHG inventory.

DEVELOPMENT OF EMISSION ESTIMATES

SC&A reviewed the quantification methodologies adopted in previous OPIC reports, and concluded that previous methodologies were consistent with OPIC’s GHG reporting policy. Therefore, SC&A utilized emission quantification methodologies from prior GHG inventories for all projects listed in Table 1 as “*Currently Active Projects Included in 2007 Baseline Inventory*”.

For projects that first became active during fiscal year ending September 30, 2013, SC&A conferred with OPIC on suitable emission methodologies that maintained continuity with past GHG assessments and could reasonably characterize a project’s activities, scale, and complexity. In Table 1, SC&A listed this set of projects as “*Emerging Active Projects in 2012 but Not Active in 2007 Baseline Inventory*”.

For all projects in the 2012 short list, SC&A developed project-specific requests for information detailing the activity data needed to assess annual GHG emissions. As activity data became available from project applicants, SC&A identified those projects for which activity data was incomplete. In a few instances, where data gaps persisted, SC&A resolved them by using engineering calculations (e.g., data interpolation, use of surrogate data, or use of industry average indicators) or carrying over project emissions data from previous year’s assessments.

When non-CO₂ emissions were converted to units of CO₂ equivalent, the global warming potential published in the Second Assessment Reports were utilized (IPCC SAR WG1 1996).

Tier A – Power Generation Sources

SC&A and OPIC identified six (6) projects in the 2012 GHG inventory as active Tier A. The maximum PTE for Tier A projects is based on an operating capacity of 8,000 hours per year (unless otherwise noted), fuel consumption data (where available), the projects’ power generating capacity (MW), and/or specific estimates of GHG emissions provided by the project applicant (where available). The preferred method relied on fuel consumption data. When this information was not available, SC&A estimated emissions based on generation capacity (MW), operating capacity (8,000 hours per year), and emission factors obtained from the International Finance Corporation’s Guidance Note 3 (IFC 2013). GHG calculations are detailed in Appendix C – Project Emissions Calculations. A complete list of sources used to produce this analysis is included in Appendix E – Annotated Bibliography.

Tier B – Oil & Gas and Other Large Sources

Tier B projects are defined as projects in the oil and gas, mining, transportation, manufacturing, construction, or other sectors which have maximum PTE emissions equal to or greater than 100,000 short

tons per year. SC&A and OPIC identified five (5) projects on the 2012 short list as Tier B. These projects belonged to the oil and gas sector for which project emissions were estimated on the basis of production throughput, fuel consumption data, and/or GHG emissions data from similar facilities. All maximum PTE estimates assume an operating capacity of 8,000 hours per year, unless otherwise noted. When emissions data from similar facilities was necessary to perform a calculation, the data was obtained from credible, published information sources. The data used in the calculations, as well as the estimated calculations, are detailed in Appendix C – Project Emissions Calculations.

Tier C – Smaller Sources

Tier C projects excluded projects already known to exceed 100,000 short tons of CO_{2e} and projects previously determined to be below the threshold of 25,000 short tons CO_{2e}. SC&A performed inventory calculations for shortlisted projects based on project descriptions and project applicant-provided data as well as published materials (e.g., corporate annual reports) and emission factors. SC&A and OPIC identified three (3) Tier C projects on the 2012 short list. The data used in the calculations, as well as the estimated calculations, are detailed in Appendix C – Project Emissions Calculations.

Latin America Power III Fund

OPIC allocates 2,077,500 short tons of CO_{2e} to the Latin America Power III Fund (Fund) to account for emissions from power-generating projects in which the Fund invests.

Buffer for Additional Sources

SC&A and OPIC incorporated a buffer into the 2012 GHG inventory to account for projects that emit less than 25,000 short tons of CO_{2e}. Per OPIC GHG accounting procedure, the sum of Tier C emissions and the buffer for potential additional sources must equal five percent of the total Tier A, B, and Fund emissions (i.e., five percent of the total emissions from OPIC projects emitting more than 100,000 short tons of CO_{2e}). In the 2012 inventory, Tier C emissions and the buffer for additional sources amounted to 1.4 and 3.6 percent respectively.

Table 1: Running Project Short List

Project	Country	Sector	Tier
<i>Currently Active Projects Included in 2007 Baseline Inventory [1]</i>			
AES Jordan	Jordan	Energy – Power	Tier A
AES Nigeria	Nigeria	Energy – Power	Tier A
Baku-Tblisi-Ceyhan Pipeline	Azerbaijan	Energy – Oil and Gas	Tier B
Gaza Private Generating PLC	Gaza	Energy – Power	Tier A
Grenada Electricity Services (WRB)	Grenada	Energy – Power	Tier A
Isagen SA	Colombia	Energy – Power	Tier A
Joshi Technologies	Colombia	Energy – Oil and Gas	Tier C
Latin American Power III	Latin America	Fund	Fund
Lukoil RPK Vysotsk	Russia	Energy – Oil and Gas	Tier B
Various Egypt Subsidiaries (Apache)	Egypt	Energy – Oil and Gas	Tier B
West African Gas Pipeline	Ghana	Energy – Oil and Gas	Tier B
<i>Projects Included in 2007 Baseline Inventory but No Longer Active</i>			
Accroven SRL	Venezuela	Energy – Oil and Gas	Tier B
Adapazari Elektrik Uretim	Turkey	Energy – Power	Tier A
Doga Enerji	Turkey	Energy – Power	Tier A
Dominica Electricity Services	Dominican Republic	Energy – Power	Tier C
E.P. InterOil	Papua New Guinea	Energy – Oil and Gas	Tier B
Equate Petrochemical	Kuwait	Energy – Oil and Gas	Tier B
Foxtrot International	Cote d'Ivoire	Energy – Oil and Gas	Tier B
Gebze Elektrik Uretim	Turkey	Energy – Power	Tier A
Habibullah Coastal Power	Pakistan	Energy – Power	Tier A
Izmir Elektrik Uretim	Turkey	Energy – Power	Tier A
Jorf Lasfar Energy	Morocco	Energy – Power	Tier A
Jose Lindley	Peru	Manufacturing	Tier C
Natural Gas Liquids II	Nigeria	Energy – Oil and Gas	Tier B
NEPC Consortium Power	Bangladesh	Energy – Power	Tier A
Paiton Energy	Indonesia	Energy – Power	Tier A
Pakistan Water & Power Development Authority	Pakistan	Energy – Power	Tier A
Termovalle SCA	Colombia	Energy – Power	Tier A
Trakya Elektrik Uretim ve Ticaret	Turkey	Energy – Power	Tier A
Wilpro Energy Services (El Furrial)	Venezuela	Energy – Oil and Gas	Tier B
Wilpro Energy Services (Pigap)	Venezuela	Energy – Oil and Gas	Tier B
<i>Emerging Active Projects in 2012 but Not Active in 2007 Baseline Inventory</i>			
CGLOB Astarta Zhadanivka Kyiv LLC	Ukraine	Agro-processing	Tier C
Citadel – Grandview Investment Holdings	Egypt	Manufacturing	Tier C
Contour Global – Togo	Togo	Energy – Power	Tier A
Pannonia Ethanol	Hungary	Manufacturing	Tier B

[1] The 2007 baseline inventory only included projects with CO₂e emissions equal or greater than 100,000 short tons. Tier C projects were added to the baseline starting in 2009 when the threshold for inclusion in the inventory was lowered to 25,000 short tons CO₂e.

Source: OPIC and SC&A, Inc.

RESULTS

OPIC's 2012 GHG Inventory is an estimated **10,013,867** short tons CO₂e, which represents a 81 percent decrease from 2011. As shown in Figure 2, there was a large contraction of Tier A emissions associated with power generation projects. Actually, seven (7) power generation projects went inactive prior to September 30, 2013, including three (3) large natural gas plants in Turkey with an aggregate generating capacity of 3,885 MW. In total, the following nine (9) projects went inactive in 2012:

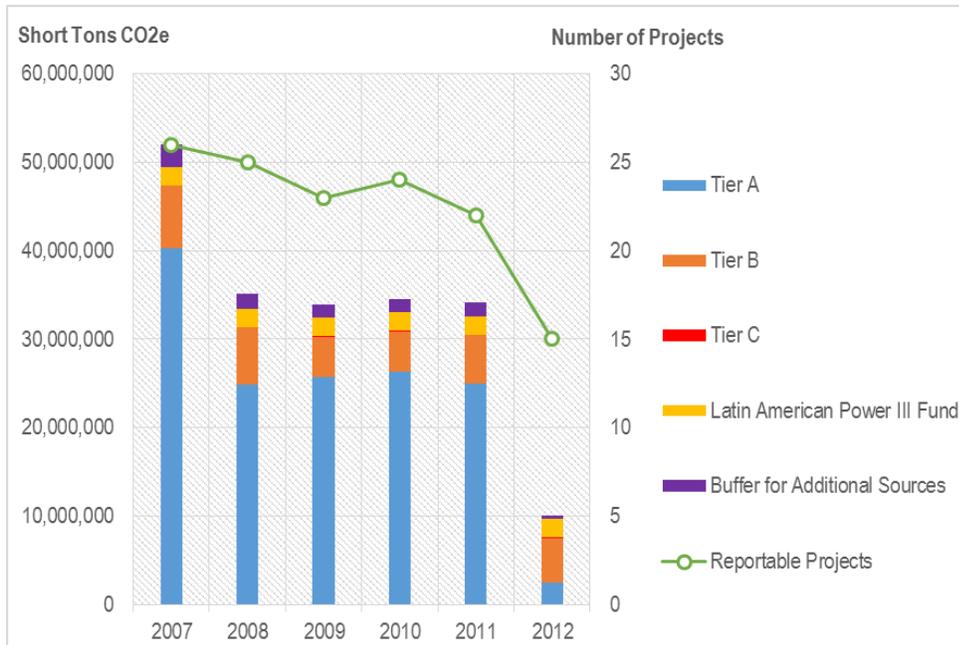
- Tier A, Adapazari Elektrik Uretim, Power Generation (Turkey)
- Tier A, Gebze Elektrik Uretim, Power Generation (Turkey)
- Tier A, Izmir Elektrik Uretim, Power Generation (Turkey)
- Tier A, NEPC Consortium Power, Power Generation (Bangladesh)
- Tier A, Paiton Energy, Power Generation (Indonesia)
- Tier A, Termovalle SCA, Power Generation (Colombia)
- Tier B, E.P. InterOil, Crude Oil Refinery (Papa New Guinea)
- Tier B, Foxtrot International, Gas Extraction & Pipeline (Cote d'Ivoire)
- Tier C, Dominica Electric Services, Power Generation (Dominican Republic)

In the same time period, only four (4) projects became active, including:

- Tier C, CGLOB Astarta Zhadanivka Kyev LLC (Ukraine)
- Tier C, Citadel – Grandview Investment Holdings (Egypt)
- Tier A, Contour Global – Togo (Togo)
- Tier B, Pannonia Ethanol (Hungary)

When total emissions are indexed to the net number of reportable projects in a given inventory year, it becomes apparent that the carbon intensity of OPIC's investment portfolio has continuously decreased since the base year from 2.00 to 0.67 million short tons CO₂e per project in 2007 and 2012 respectively.

Figure 2. OPIC Portfolio GHG Emissions, 2007 – 2012





Emission inventory details of the 2012 GHG inventory and past inventories inclusive of the 2007 baseline are presented in Tables 2 through Table 5. Tables 2, 3 and 4 present emissions from Tier A, Tier B and Tier C projects respectively. Table 5 summarizes GHG emissions of OPIC's entire portfolio including emissions associated with the Latin American Power III Fund as well as an emission estimate of potentially unaccounted sources (i.e., Buffer for Additional Sources). Note that the Buffer for Additional Sources is presented in two separate rows in Table 5 to highlight the fact that it was calculated differently in the period 2007-2008 from the way it was calculated in the period 2009-2012. The buffer was originally set as five percent of the sum of Tier A and Tier B emissions. Since 2009, the buffer is set so that the sum of Tier C emissions and the buffer equal five percent of the sum of Tier A and Tier B emissions.



Table 2: Tier A Project Emissions (Short Tons CO₂e)

Project Name	Location	Description	Capacity / Throughput	Fuel Type	Maximum PTE [1]	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
						CY2007 Emissions Baseline	CY2008 Emissions	CY2009 Emissions	CY2010 Emissions	CY2011 Emissions	CY2012 Emissions
Adapazari Elektrik Uretim	Turkey	Combined Cycle	777 MW	Natural Gas	2,706,499	2,106,754	2,106,754	2,441,657	2,426,053	2,309,241	Not Active
AES Jordan [2]	Jordan	Combined Cycle	370 MW	Natural Gas & Diesel	1,545,173	N/A	590,940	1,318,130	1,434,569	1,184,010	936,400
AES Nigeria	Nigeria	Engine-Based Power Generation	270 MW	Natural Gas	1,603,307	1,166,398	1,341,157	988,271	949,754	949,754	949,754
Contour Global - Togo	Togo	Engine-Based Power Generation	100 MW	HFO & Natural Gas	587,305	Not Active	Not Active	Not Active	Below Threshold	46,561	130,772
Doga Enerji	Turkey	Combined Cycle	180 MW	Natural Gas	816,057	740,762	740,762	672,014	655,981	Not Active	Not Active
Gaza Private Generating PLC	Gaza	Combined Cycle	136.4 MW	Natural Gas	481,485	293,804	303,535	325,926	228,627	405,262	Below Threshold
Gebze Elektrik Uretim	Turkey	Combined Cycle	1554 MW	Natural Gas	5,412,998	4,121,923	4,121,923	4,794,979	4,833,330	4,535,511	Not Active
Grenada Electricity Services (WRB)	Grenada	Engine-Based Power Generation	18 MW	Diesel	105,715	114,571	121,156	141,127	135,237	134,371	131,206
Habibullah Coastal Power	Pakistan	Combined Cycle	140 MW	Natural Gas	487,658	447,880	447,880	Not Active	Not Active	Not Active	Not Active
Isagen SA	Columbia	Combined Cycle	300 MW	Natural Gas	687,835	203,010	Below Threshold	300,706	305,181	305,181	305,181
Izmir Elektrik Uretim	Turkey	Combined Cycle	1554 MW	Natural Gas	5,412,998	4,694,380	4,694,380	4,300,376	4,739,787	4,824,511	Not Active
Jorf Lasfar Energy	Morocco	Steam Boiler	1356 MW	Coal	14,268,496	14,268,496	Not Active				
NEPC Consortium Power	Bangladesh	Engine-Based Power Generation	313,105 MMBtu	Natural Gas & HFO	383,159	245,795	343,581	255,734	297,068	297,068	Not Active
Paiton Energy	Indonesia	Steam Boiler	1220 MW	Coal	7,938,380	9,553,044	9,553,044	9,624,125	9,854,076	10,045,869	Not Active
Pakistan Water & Power Authority [3]	Pakistan	Combined Cycle	150 MW	Natural Gas	522,490	522,490	522,490	283,937	283,937	Not Active	Not Active
Termovalle SCA [4]	Colombia	Combined Cycle	205 MW	Natural Gas	714,070	Below Threshold	Below Threshold	223,983	223,983	Below Threshold	Not Active
Trakya Elektrik Uretim	Turkey	Combined Cycle	478 MW	Natural Gas	1,818,912	1,747,956	Not Active				

[1] Maximum PTE was calculated on the basis of a projects maximum operating capacity. When maximum operating capacity could not be determined, the maximum PTE was set equal to the highest annual emission level assessed in this or prior OPIC GHG inventories.

[2] Sharp emission increase due to ramped-up energy production from 10,103,603 in 2008 to 22,536,748 MMBtu in 2009.

[3] 2009 emissions are significantly lower due to fewer reported operating hours.

[4] 2009 emissions are significantly higher due to increased reported operating hours.

Table 3. Tier B Project Emissions (Short Tons CO_{2e})

Project Name	Location	Description	Capacity / Throughput	Fuel Type	Maximum PTE [1]	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
						CY2007 Emissions Baseline	CY2008 Emissions	CY2009 Emissions	CY2010 Emissions	CY2011 Emissions	CY2012 Emissions
Accroven SRL	Venezuela	NGL Facility	800 MMscfd	Natural Gas	998,677	998,677	445,832	Not Active	Not Active	Not Active	Not Active
Baku-Tblisi-Ceyhan Pipeline	Azerbaijan	Crude Oil Pipeline	1.2 million barrels/day	Natural Gas & Diesel	699,034	707,672	707,672	787,577	723,214	671,605	584,200
E.P. Interoil [5]	Papua New Guinea	Crude Oil Refinery	32,500 barrels/day	Crude Oil Refinery	802,469	392,296	103,247	79,709	75,928	74,985	Not Active
Equate Petrochemical	Kuwait	Petrochemical Facility	1540 MMBtu/hr	Natural Gas	720,573	720,573	680,311	Not Active	Not Active	Not Active	Not Active
Foxtrot International [2]	Cote d'Ivoire	Gas Extraction & Pipeline	100 MMscfd	Natural Gas	270,804	104,484	104,484	104,484	Below Threshold	27,746	Not Active
Lukoil RPK Vysotsk [3] [5]	Russia	Oil & Petroleum Export Terminal	6.8 million metric tons/yr	Crude Oil & Products	107,184	70,767	70,767	76,339	97,117	91,143	92,696
Natural Gas Liquids II Financing	Nigeria	NGL Facility	19.5 MMscfd	Natural Gas	390,806	244,048	244,048	Not Active	Not Active	Not Active	Not Active
Pannonia Ethanol	Hungary	Ethanol Production	240 million liters	Natural Gas	110,543	Not Active	Not Active	Not Active	Not Active	Not Active	64,244
Various Egypt Subsidiaries (Apache) [4]	Egypt	Oil & Gas Extraction & Processing	29,934,702 bbl/yr 89,910 MMscf/yr	Oil & Natural Gas	2,429,543	3,071,932	3,244,189	3,294,654	3,465,842	4,438,554	4,178,447
West Africa Gas Pipeline [5]	Ghana	Gas Compression & Transmission	190 MMscfd	Natural Gas	244,728	Not Active	Not Active	244,728	91,451	86,617	86,617
Wilpro Energy Services (El Furrial)	Venezuela	Gas Compression	60 MW	Natural Gas	289,106	289,106	289,106	Not Active	Not Active	Not Active	Not Active
Wilpro Energy Services (Pigap)	Venezuela	Gas Compression	100 MW	Natural Gas	507,923	571,090	571,090	Not Active	Not Active	Not Active	Not Active

[1] Maximum PTE was calculated on the basis of a projects maximum operating capacity. When maximum operating capacity could not be determined, the maximum PTE was set equal to the highest annual emission level assessed in this or prior OPIC GHG inventories.

[2] In 2010, Foxtrot operated for a minimal period of time and thus had corresponding GHG emissions below the established threshold.

[3] Lukoil has the Potential-to-Emit over 100,000 tons CO₂ annually, although emissions have been reported below this level to date.

[4] In 2007 and 2008, Apache reported their emissions in relation to their equity share of the project (49%). OPIC accounts 100% of a project's emissions regardless of equity share. As a result, emissions data for 2007 and 2008 will more than double in comparison to the project sponsor reported data in order to calibrate the inventory according to OPIC standards.

[5] In some years, project emissions have been estimated to be less than 100,000 short tons but the project has the Potential-to-Emit greater than 100,000 short tons annually.



Table 4. Tier C Project Emissions (Short Tons CO₂e)

Project Name	Location	Description	Maximum PTE [1]	FY2010	FY2011	FY2012	FY2013
				CY2009 Emissions	CY2010 Emissions	CY2011 Emissions	CY201 Emissions
CGLOB Astarta Zhadanivka Kyiv LLC	Ukraine	Agriculture	25,000	Not Active	Not Active	Below Threshold	36,886
Citadel - Grandview Investment Holdings	Egypt	Manufacturing	46,609	Not Active	Not Active	Not Active	46,609
Dominica Electric Services	Dominican Republic	Power Generation	50,084	50,084	50,084	50,084	Not Active
Jose Lindley	Peru	Manufacturing	25,000	25,000	25,000	Not Active	Not Active
Joshi Technologies / Parko Services	Colombia	Oil & Gas	30,398	30,398	57,826	43,564	52,894

[1] Maximum PTE was calculated on the basis of a projects maximum operating capacity. When maximum operating capacity could not be determined, the maximum PTE was set equal to the highest annual emission level assessed in this or prior OPIC GHG inventories.

Table 5. Summary of OPIC Portfolio Emissions (Short Tons CO₂e)

Inventory Item	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
	CY2007 Emissions Baseline	CY2008 Emissions	CY2009 Emissions	CY2010 Emissions	CY2011 Emissions	CY2012 Emissions
Tier A	40,227,263	24,887,602	25,670,965	26,367,582	25,037,339	2,453,313
Tier B	7,170,645	6,460,746	4,587,491	4,453,552	5,390,650	5,006,203
Tier C	-	-	105,482	132,910	93,648	136,389
Tier A, B, C Subtotal	47,397,908	31,348,348	30,363,938	30,954,044	30,521,637	7,595,905
Latin America Power III Fund [1]	2,077,500	2,077,500	2,077,500	2,077,500	2,077,500	2,077,500
5% Buffer for Additional Sources [2]	2,473,770	1,671,292	-	-	-	-
Buffer for Additional Sources [3]	-	-	1,511,316	1,512,022	1,531,626	340,462
TOTAL:	51,949,178	35,097,140	33,952,754	34,543,566	34,130,763	10,013,867

[1] Per agreement between Latin American Power III and OPIC, the Fund agreed to “not make an investment in a Portfolio Company if after such investment, the assets and operations of all Portfolio Companies then held by the Fund would emit (in the aggregate and on a calendar year basis) in excess of 2,077,500 short tons CO₂ as calculated in accordance with the IPCC”.

[2] The buffer was originally set as five percent of the sum of Tier A and Tier B emissions

[3] Since 2009, the buffer is set so that the sum of Tier C emissions and the buffer equal five percent of the sum of Tier A and Tier B emissions.

APPENDIX A – 2007 ACTIVE PROJECTS

This table lists projects active as of June 30, 2008 that were screened as part of the 2007 GHG inventory development process.

PROJECT NAME	COUNTRY	SECTOR
FINANCE		
TB-ANDREW & WILLIAMSON FRESH PRODUCE	MEXICO	AGRI
FLAMA DE ORO S.A.	GUATEMALA	AGRI
FLAMA DE ORO, S.A.	GUATEMALA	AGRI
BESCH INT'L, INC/SAN MARTIN FARMS CIA. LTDA.	ECUADOR	AGRI
BRUCH SIDE FARMS AGROPECUARIA DO BRAZIL LTDA	BRAZIL	AGRI
EL SALADERO UY S.R.L.	URUGUAY	AGRI
DMITROV DAIRY FARMS, CJSC	RUSSIA	AGRI
ROTA INTERNATIONAL EXPORTING, LLC.	GUINEA-BISSAU	AGRI
LA FUTURA, S.A.	GUATEMALA	AGRI
WBC-FORESTRIDE, INC	LATIN AMERICA REGIONAL	AGRI
WBC-SOUTHERN VALLEY FRUIT & VEGETABLE, INC.	MEXICO	AGRI
WBC-MARICULTURA DEL NORTE, S.DE R.L. DE C.V.	MEXICO	AGRI
CSA-REY BANANO DEL PACIFICO C.A.	ECUADOR	AGRI
LEAWOOD INVESTMENTS INC/BARRIEFIELD LLC	COLOMBIA	AGRI
CELLCOM TELECOMMUNICATIONS INC.	LIBERIA	COMM
SABLE-CELLCOM TELECOMMUNICATIONS INC	LIBERIA	COMM
RURALFONE, INC.	BRAZIL	COMM
ZAO STAR NETWORKS	RUSSIA	COMM
CAFR-MIC TANZANIA LIMITED (TZS)	TANZANIA	COMM
CAFR-MIC TANZANIA LIMITED (USD)	TANZANIA	COMM
CASIA-PACIFIC BANGLADESH TELECOM LIMITED	BANGLADESH	COMM
CPAK-PAKISTAN MOBILE COMMUNICATION(PMCL)	PAKISTAN	COMM
AGROTERMINAL LTD.	RUSSIA	CONS
ATLANTIC GROUP (UGANDA) LTD.	UGANDA	CONS
CUSTOMIZED CONSTRUCTION, INC.	AFGHANISTAN	CONS
INTERNATIONAL DEVELOPMENT TRUST IRAQ	IRAQ	CONS
ROUMEL DEVELOPMENT CORPORATION 2	BOSNIA-HERZEGOVINA	CONS
INTERNATIONAL VILLAGE SH.P.K.	KOSOVO	CONS
GHP(HONDURAS)LLC/GLOBAL HOUSING DEVELOPMENT	HONDURAS	CONS
MASKAN, INC. (TRANCHE A)	AFGHANISTAN	CONS
AFCO-KANDAHAR VALLEY, LLC	AFGHANISTAN	CONS
ROUMEL DEVELOPMENT CORPORATION	BOSNIA-HERZEGOVINA	CONS
JOPA VILLAS, LLC	KENYA	CONS
AMEBRASIL CONSTRUCOES LIMITADA	BRAZIL	CONS
WBC-MONOLITHIC HOUSING S.A.	MEXICO	CONS
SIGMA INTERNATIONAL CONSTRUCTION LLC.	IRAQ	CONS
CENTRAL EAST AFRICA RAILWAYS COMPANY LIMITED	MALAWI	CONS
CONDOMINIOS RIVERSIDE ETAPA II, S.A.	COSTA RICA	CONS
SOUTH AFRICA FINANCING ENTERPRISE	SOUTH AFRICA	CONS
VISTAS BELIZE LTD	BELIZE	CONS
CORREDOR DE DESENVOLVIMENTO DO NORTE S.A.R.L	MOZAMBIQUE	CONS
SOCIEDAD CONCESIONARIA VESPUCIO NORTE EXPRES	CHILE	CONS
EMERGENCY LIQUIDITY FACILITY, L.P.	LATIN AMERICA REGIONAL	FIN
AEGIS INVESTMENT COMPANY	ALL OPIIC COUNTRIES	FIN
CITIBANK, N.A.(RUSSIA/CIS LENDING FACILITY)	NIS REGIONAL	FIN
MIDDLE EAST INVESTMENT INITIATIVE, INC.	GAZA	FIN
CITIBANK, N.A.(PAKISTAN ON LENDING FACILITY)	PAKISTAN	FIN
HONDURAS HOMES, S.A.	HONDURAS	FIN
AFGHAN GROWTH FINANCE LLC	AFGHANISTAN	FIN
BANCO DE CREDITO CENTROAMERICANO, S.A.	NICARAGUA	FIN
BANCO DE CREDITO CENTROAMERICANO, S.A.	NICARAGUA	FIN
BANCO LAFISE HONDURAS, S.A.	HONDURAS	FIN
CMFI-K-REP BANK	KENYA	FIN
FIRST MORTGAGE COMPANY UCO, LLC	ARMENIA	FIN
HFA ZAMBIA LIMITED	ZAMBIA	FIN
INTER-MAC INTERNATIONAL, INC.	HONDURAS	FIN

PROJECT NAME	COUNTRY	SECTOR
IRAQ MIDDLE MARKET DEVELOPMENT FOUNDATION	IRAQ	FIN
MIDDLE EAST INVESTMENT INITIATIVE, INC.	GAZA	FIN
NHCAPSTONE HOLDING GROUP LIMITED	LEBANON	FIN
RUSSIAN ASSET MBS, S.A.	RUSSIA	FIN
TAMEER MICROFINANCE BANK LIMITED	PAKISTAN	FIN
THE COOPERATIVE HOUSING FOUNDATION LEBANON	LEBANON	FIN
W3-BANCO FINANCIERO DEL PERU	PERU	FIN
W3-RIZAL COMMERCIAL BANKING CORP	PHILIPPINES	FIN
W3-SEKERBANK A.S.	TURKEY	FIN
MEII-AL RAFAH BANK	WEST BANK	FIN
MEII-BANK OF PALESTINE	WEST BANK	FIN
COUNTERPART INTERNATIONAL, INC.	PHILIPPINES	FIN
CMFI-TAMWEELCOM	JORDAN	FIN
THE COOPERATIVE HOUSING FOUNDATION	MEXICO	FIN
CALVERT SOCIAL INVESTMENT FOUNDATION	ALL OPIC COUNTRIES	FIN
CMFI-FINANCIERA SOLIDARIA (FINSOL)	HONDURAS	FIN
CMFI-UGANDA FINANCE TRUST	UGANDA	FIN
CMFI-PRIDE UGANDA	UGANDA	FIN
CMFI-CENTER FOR AGRICULTURE & RURAL DEVELOP	PHILIPPINES	FIN
LIBERIAN ENTERPRISE DEVELOPMENT FINANCE CO.	LIBERIA	FIN
CMFI-UGANDA MICROFINANCE LIMITED	UGANDA	FIN
CONSERVATION INTERNATIONAL FOUNDATION	ALL OPIC COUNTRIES	FIN
NCB-DENIZBANK PURPOSE B	TURKEY	FIN
CMFI-APOYO INTEGRAL, S.A. DE C.V.	EL SALVADOR	FIN
CMFI-FUNDACION INTEGRAL COMUNITARIA (FINCA)	MEXICO	FIN
BANCO LAFISE HONDURAS, S.A.	HONDURAS	FIN
WBC-RABITABANK OJSC	AZERBAIJAN	FIN
THE COOPERATIVE HOUSING FOUNDATION	ROMANIA	FIN
SOA KREDIT NON-BANKING CREDIT ORGANIZATI LLC	AZERBAIJAN	FIN
THE COOPERATIVE HOUSING FOUNDATION	ROMANIA	FIN
MICROFINANCE SECURITIES XXEB SA JUNIOR	ALL OPIC COUNTRIES	FIN
PROCREDIT, S.A.	MOLDOVA	FIN
NCB-NBD BANK, JOINT-STOCK COMPANY	RUSSIA	FIN
CMFI-KAZMICROFINANCE LLC	KAZAKHSTAN	FIN
RKU FRANCHISING LIMITED	RUSSIA	FIN
W2-FINANSBANK A.S.	TURKEY	FIN
GLOBAL PARTNERSHIPS MICROFINANCE FUND2006LLC	LATIN AMERICA REGIONAL	FIN
CPAK2-KASHF FOUNDATION	PAKISTAN	FIN
PROCREDIT BANK (TRANCHE 2)	UKRAINE	FIN
W2-ANADOLUBANK	TURKEY	FIN
W2-AYSA FINANS	TURKEY	FIN
CHF/L-FRANSABANK S.A.L.	LEBANON	FIN
BANCO LAFISE, S.A. (TRANCHE 3)	COSTA RICA	FIN
BANCO DE CREDITO CENTROAMERICANO, S.A.	NICARAGUA	FIN
WBC-GEORGIAN LEASING COMPANY, LLC	GEORGIA	FIN
CSI LATINA FINANCIAL, INC.	MEXICO	FIN
GREENWICH FINANCIAL SERVICES, L.L.C.	RUSSIA	FIN
MICROFINANCE SECURITIES XXEB SA SENIOR	ALL OPIC COUNTRIES	FIN
EMERGING MARKETS CONSULTING (PRIVATE) LTD.	PAKISTAN	FIN
IRAQ MIDDLE MARKET DEVELOPMENT FOUNDATION	IRAQ	FIN
WBC-NBD BANK	RUSSIA	FIN
CHF/L-JAMAL TRUST BANK S.A.L.	LEBANON	FIN
WBC-OJSC COMMERCIAL BANK "SDM-BANK"	RUSSIA	FIN
CASIA-LANKA ORIX LEASING COMPANY LTD.	SRI LANKA	FIN
SOA KREDIT NON-BANKING CREDIT ORGANIZATI LLC	AZERBAIJAN	FIN
W3-CREDICORP BANK, S.A.	PANAMA	FIN
NCB-DENIZBANK A.	TURKEY	FIN
GHANA HOME LOANS (FUND 1) LIMITED	GHANA	FIN
W2-BANK CENTERCREDIT	KAZAKHSTAN	FIN
WBC-ZAO DELTALEASING	RUSSIA	FIN
WBC-BANK OF GEORGIA	GEORGIA	FIN
WBC-INDEPENDENT LEASING, LLC	RUSSIA	FIN
WBC-SOTSIALNIY GORODSKOY BANK (SOTSGORBANK)	RUSSIA	FIN
BANCO LAFISE S.A.	COSTA RICA	FIN
W-BANCO FINANCIERA COMERCIAL HONDURENA	HONDURAS	FIN

PROJECT NAME	COUNTRY	SECTOR
PROCREDIT BANK	UKRAINE	FIN
MICROFINANCE SECURITIES XXEB SA MEZZANINE	ALL OPIC COUNTRIES	FIN
W2-FIRST INVESTMENT BANK BULGARIA	BULGARIA	FIN
W2-TEKSTIL BANKASI, A.S.	TURKEY	FIN
UMBRALCAPITAL, S.A.P.I. DE C.V.	MEXICO	FIN
NCB2 –OYAK BANK A.S.	TURKEY	FIN
NCB2-TURK EKONOMI BANKASI A.S.(T.E.B.)	TURKEY	FIN
NCB2-BANK ASYA KATALIM, A.S.	TURKEY	FIN
W-FIRST INVESTMENT BANK	BULGARIA	FIN
CSA-BANCO REGIONAL, S.A.	PARAGUAY	FIN
NCB-OJSC SIBACADEMBANK	RUSSIA	FIN
CCA2-BANCA PROMERICA, S.A.	COSTA RICA	FIN
CCA2-BANCO IMPROSA, S.A.	COSTA RICA	FIN
CCA2-BANCO MERCANTIL, S.A.	HONDURAS	FIN
SMALL BUSINESS CREDIT BANK (TRANCHE A)	RUSSIA	FIN
SMALL BUSINESS CREDIT BANK (TRANCHE B)	RUSSIA	FIN
CSA-BANCO PROCREDIT ECUADOR	ECUADOR	FIN
NCB3-LOCKO BANK	RUSSIA	FIN
NCB3-TRANSCAPITAL BANK JSC	RUSSIA	FIN
W2-BANCO DEL PAIS, S.A.	HONDURAS	FIN
W2-PROBUSINESSBANK	RUSSIA	FIN
W3-BANCO PINE, S.A.	BRAZIL	FIN
W3-BANCO REFORMADOR, S.A.	GUATEMALA	FIN
CASIA-BRAC	BANGLADESH	FIN
CASIA-SKS MICROFINANCE PRIVATE LTD.	INDIA	FIN
CHOUS-BANCO DE LA PRODUCCION S.A.	NICARAGUA	FIN
NCB3-BANCO PINE S.A.	BRAZIL	FIN
W2-ALLIANCE BANK	KAZAKHSTAN	FIN
NCB3-CENTER-INVEST BANK JSC	RUSSIA	FIN
CPAK-ORIX LEASING PAKISTAN LIMITED	PAKISTAN	FIN
CLEB-BANQUE LIBANO-FRANCAISE S.A.L.	LEBANON	FIN
BAN-CREDITO INMOBILIARIO S.A. DE C.V.	MEXICO	FIN
BANCO LAFISE, S.A. (TRANCHE 2)	COSTA RICA	FIN
NCB2-BANCO MERCANTIL DO BRASIL S.A.	BRAZIL	FIN
W2-SIBACADEMBANK	RUSSIA	FIN
W2-TURK EKONOMI BANK	TURKEY	FIN
CLOSED JOINT STOCK COMPANY DELTALEASING	RUSSIA	FIN
NCB3-ROSEUROBANK	RUSSIA	FIN
INTERNATIONAL MORTGAGE BANK	UKRAINE	FIN
NCB2-TURK EKONOMI BANKASI A.S. PURPOSE B	TURKEY	FIN
W-OYAK BANK	TURKEY	FIN
W3-TURKIYE GARANTI BANKASI AS	TURKEY	FIN
NCB3-BANK CENTER CREDIT JSC	KAZAKHSTAN	FIN
CNIS-JSC KAZKOMMERTSBANK	KAZAKHSTAN	FIN
CNIS-JSC HALYK BANK	KAZAKHSTAN	FIN
CHOUS-BANCO FINANCIERA COMMERCIAL HONDURENA	HONDURAS	FIN
NCB2 –BANK TURAN ALEM	KAZAKHSTAN	FIN
W2-OYAK BANK A.S.	TURKEY	FIN
NCB2-JSC PROMSVYAZBANK	RUSSIA	FIN
W2-BANCO ATLANTIDA	HONDURAS	FIN
PROCREDIT HOLDING A.G.	ALL OPIC COUNTRIES	FIN
W2-JSC BANK TURAN ALEM	KAZAKHSTAN	FIN
IRAQ MIDDLE MARKET DEVELOPMENT FOUNDATION	IRAQ	FIN
W2-AKBANK T.A.S.	TURKEY	FIN
ZAO EUROPLAN	RUSSIA	FIN
CHOUS-BANRURAL S.A.	GUATEMALA	FIN
CLEB2-BANK AUDI SAL-AUDI SARADAR GROUP	LEBANON	FIN
NCB3-ALLIANCE BANK JSC	KAZAKHSTAN	FIN
NCB3-ATF BANK JSC	KAZAKHSTAN	FIN
REFORMA BLN-BACKED I	MEXICO	FIN
CLEB-BANKMED S.A.L.	LEBANON	FIN
CLEB-BYBLOS BANK S.A.L.	LEBANON	FIN
BLUEORCHARD MICROFINANCE SECURITIES I LLC	ALL OPIC COUNTRIES	FIN
TRADE BANK OF IRAQ	IRAQ	FIN
ZAO COMMERCIAL BANK DELTACREDIT	RUSSIA	FIN

PROJECT NAME	COUNTRY	SECTOR
ZAO EUROPLAN	RUSSIA	FIN
HOUSING FOR HIV, INC.	SOUTH AFRICA	FIN
PT. PADI MURNI INDONESIA	INDONESIA	MFR
ELLCOTT DREDGES IRAQ, LLC	IRAQ	MFR
NAMGEM TRADING BVI LIMITED	NAMIBIA	MFR
PALCO SP.ZO.O.	POLAND	MFR
TB-WISENBAKER BUILDING SERVICES, LTD.	BRAZIL	MFR
ZAO SOLNTSE MEXICO	RUSSIA	MFR
PURPLE RHINO IMPORTS, INC.	SOUTH AFRICA	MFR
NATURA BEVERAGE LLC	CAMEROON	MFR
DESARROLLO DE RIO PACORA SA	PANAMA	MFR
DESARROLLO DE RIO PACORA SA	PANAMA	MFR
GOLDEN CYPRESS WATER CO. LTD.	PHILIPPINES	MFR
ZAO NUMOTECH-SPEKTR	RUSSIA	MFR
RAYMOND DE VENEZUELA, C.A.	VENEZUELA	MFR
WESTSTAR PRECISION, INC.	COSTA RICA	MFR
NATURA BEVERAGE, LLC	CAMEROON	MFR
MAGNUM MACHINING INCORPORATED	MEXICO	MFR
QWO JOINT STOCK COMPANY	AFGHANISTAN	MFR
ADOBERIA SAHEL, S.A.	MALI	MFR
V G ENTERPRISES, INC.	RUSSIA	MFR
CASAMAR MAURITIUS, LTD./CASAMAR INDIAN OCEAN	MAURITIUS	MFR
SERVICIO GRAFICOS QUIPUS	BOLIVIA	MFR
BAKU OIL TOOLS, LTD.	AZERBAIJAN	MFR
DOMES INTERNATIONAL, INC.	ASIA REGIONAL	MFR
SAFI APPAREL CORPORATION	AFGHANISTAN	MFR
CAMAS GHANA INC.	GHANA	MFR
CPAK2-ENGRO VOPAK TERMINAL LTD	PAKISTAN	MFR
NUMOTECH, INC.	RUSSIA	MFR
AFRICAN-AMERICAN TRADING COMPANY, INC.	GHANA	MFR
RAYMOND DE VENEZUELA, C.A.	VENEZUELA	MFR
PRODUCTORA DE PAPELES SA (SUBORDINATED DEBT)	COLOMBIA	MFR
WBC-PREFERRED BRANDS INTERNATIONAL, LLC	INDIA	MFR
ZAO NYPRO	RUSSIA	MFR
SWEETWATER PAKISTAN (PRIVATE) LIMITED	PAKISTAN	MFR
QWO JOINT STOCK COMPANY	AFGHANISTAN	MFR
ACAI DO AMAPA AGROINDUSTRIAL LTDA.	BRAZIL	MFR
SANTE GMT PRODUCTS LTD.	GEORGIA	MFR
WBC-PREFERRED BRANDS INTERNATIONAL, LLC	INDIA	MFR
LAGRAY CHEMICAL COMPANY LTD	GHANA	MFR
MOUNTAIN PASTURES HOLDINGS LLC	AFGHANISTAN	MFR
WBC-INTERFARMA TIBBI MALZEMELER SANAYI VE TI	TURKEY	MFR
CSA-CORPORACION JOSE R. LINDLEY, SA-2	PERU	MFR
WBC-CORPORATIVO PAPELERO Y DE SUMINISTROS BA	MEXICO	MFR
GOLDEN SIERRA PARTNERS, LLC	ESTONIA	MFR
WBC-DELTA PLASTIK ENDUSTRISI A.S.	TURKEY	MFR
WBC-KELLY GRAINS CORPORATION S.R.L.	MOLDOVA	MFR
ABI GROUP LTD.	AFGHANISTAN	MFR
WBC-SFC ENTEGRE ORMAN URUNLERI SANAYI VE TIC	TURKEY	MFR
WBC-JSC POLIGRAF LAND	RUSSIA	MFR
PREFABRICADOS Y MODULARES DE MONTERREY(PYMM)	MEXICO	MFR
PHYTO-RIKER PHARMACEUTICALS LTD.	GHANA	MFR
CPAK-LUCKY CEMENT LIMITED	PAKISTAN	MFR
PRODUCTORA DE PAPELES SA (PROPAL)	COLOMBIA	MFR
CPAK-D.G.KHAN CEMENT COMPANY LIMITED	PAKISTAN	MFR
CAFR-MIDDLE EAST COMPLEX FOR ENGINEERING	JORDAN	MFR
CSA-CORPORACION JOSE R. LINDLEY, S.A.	PERU	MFR
COMPANIA MINERA PIMENTON SA	CHILE	MINE
BRAZILIAN EMERALDS,INC.	BRAZIL	MINE
ADVANCED CENTRAL GAS COMPANY LIMITED	JORDAN	OIL
BRAVO ENERGY MEXICO SRL DE CV	MEXICO	OIL
PARKO SERVICES, S.A.	COLOMBIA	OIL
BRAVO ENERGY ARGENTINA SCA	ARGENTINA	OIL
PT. TUCAN PUMPCO SERVICES INDONESIA	INDONESIA	OIL
JOSHI TECHNOLOGIES INTERNATIONAL, INC.	COLOMBIA	OIL

PROJECT NAME	COUNTRY	SECTOR
BRAVO ENERGY MEXICO SRL DE CV	MEXICO	OIL
GOLDHAM PTY LTD.T/A KALAHARI GAS CORPORATION	BOTSWANA	OIL
E.P. INTEROIL, LTD.	PAPUA NEW GUINEA	OIL
RPK-VYSOTSK "LUKOIL-II"	RUSSIA	OIL
WILPRO ENERGY SERVICES (PIGAP II) LTD.	VENEZUELA	OIL
WILPRO ENERGY SERVICES (EL FURRIAL) LIMITED	VENEZUELA	OIL
ACCROVEN SRL	VENEZUELA	OIL
NATURAL GAS LIQUIDS (II) FINANCING COMPANY	NIGERIA	OIL
MATH HYDRO POWER (PVT) LTD.	SRI LANKA	POWER
E+CO, INC.	HONDURAS	POWER
TRIANGLE GENERAL CONTRACTORS, INC.	KOSOVO	POWER
AES JORDAN PSC	JORDAN	POWER
PAITON ENERGY COMPANY	INDONESIA	POWER
JORF LASFAR ENERGY COMPANY	MOROCCO	POWER
ADAPAZARI ELEKTRIK URETIM LTD. SIRKETI	TURKEY	POWER
TRAKYA ELEKTRIK	TURKEY	POWER
NEPC CONSORTIUM POWER LTD.(HARIPUR)	BANGLADESH	POWER
DOGA ENERJI	TURKEY	POWER
IZMIR ELEKTRIK URETIM LTD SIRKETI	TURKEY	POWER
GEBZE ELEKTRIK URETIM LTD SIRKETI	TURKEY	POWER
TERMOBARRANQUILLA, S.A.	COLOMBIA	POWER
PAITON ENERGY COMPANY	INDONESIA	POWER
AMERICAN WOOL-CASHMERE, INC.	AFGHANISTAN	SVC
INTERCOMP CJSC	RUSSIA	SVC
SUMMIT ASSOCIATES, LTD.	AFGHANISTAN	SVC
DEXTER SAFETY & INDUSTRIAL PRODUCTS, INC.	MEXICO	SVC
RAPID MAIL COMPANY LIMITED	BELIZE	SVC
GILBERTO J.M.GONZALEZ/DBA/FERRETERIA MORALES	NICARAGUA	SVC
GLOBAL DESIGN, S.A.	PANAMA	SVC
PRINCETON HEALTHCARE	BRAZIL	SVC
INSTITUTO CULINARIO SANTA LUCIA,S.A.	NICARAGUA	SVC
IBS HOLDINGS, LLC	AFGHANISTAN	SVC
SUBWAY RUSSIA, LLC	RUSSIA	SVC
LIVING WATER INTERNATIONAL	KENYA	SVC
ADMINISTRADORA DE INVERSIONES PEGGY, S.A.	GUATEMALA	SVC
ABAMEDIA, L.P.(TRANCHE A)	RUSSIA	SVC
MEDPHARM, INC.	ETHIOPIA	SVC
S&N PUMP AFRICA, LDA	ANGOLA	SVC
GEOSURVEY INTERNATIONAL LLC	KENYA	SVC
THREE PAPAS, INC.	RUSSIA	SVC
QSI INTERNATIONAL SCHOOL OF TBILISI	GEORGIA	SVC
NH SERVICOS DE SINALIZACAO LTDA.	BRAZIL	SVC
INTERNATIONAL COMMUNITY SCHOOL LIMITED	GHANA	SVC
ISTANBUL INTERNATIONAL COMMUNITY SCHOOL (B)	TURKEY	SVC
MAJESTIC GROUP KOREA, LTD.	KOREA (SOUTH)	SVC
TIS LTD.	UZBEKISTAN	SVC
INTERNET GABON, SA	GABON	SVC
AMERICAN EMBASSY SCHOOL OF LUSAKA	ZAMBIA	SVC
THREE PAPAS, LLC	RUSSIA	SVC
WESTWOOD INTERNATIONAL SCHOOL	BOTSWANA	SVC
WBC-ZAO AIRES	RUSSIA	SVC
WINNER GROUP UKRAINE, INC.	UKRAINE	SVC
AMERICAN INTERNATIONAL SCHOOL SYSTEMS, INC.	PAKISTAN	SVC
WBC-VALLARTA VISION Y MISION A.C.	MEXICO	SVC
AMERICAN WOOL-CASHMERE, INC.	AFGHANISTAN	SVC
RB-AMERICAN COOPERATIVE SCHOOL OF TUNIS	TUNISIA	SVC
SALVATIERRA DESARROLLOS URBANOS, S.A. DE C.V	MEXICO	SVC
AMERICAN INTERNATIONAL SCHOOL OF ABUJA	NIGERIA	SVC
WBC-COMERCIAL LAEISZ, S.A. DE C.V.	HONDURAS	SVC
NEW YORK PIZZA CO. LTD.	RUSSIA	SVC
ISTANBUL INTERNATIONAL COMMUNITY SCHOOL, INC.	TURKEY	SVC
WBC-ZAO AIRES	RUSSIA	SVC
WBC-ATLANTIC GROUP LIMITED	UKRAINE	SVC
CNIS-IKEA	RUSSIA	SVC
FIXED RATE FUNDING & LIQUIDITY LTD (HWD SPA)	ALGERIA	SVC

PROJECT NAME	COUNTRY	SECTOR
TAYL INVESTORS GROUP LIMITED	AFGHANISTAN	TOUR
MONGOLIAN RESORTS XXX	MONGOLIA	TOUR
MALIKA HOTEL BUKHARA, LLC	UZBEKISTAN	TOUR
DESARROLLOS DE LOS SUEÑOS, S.A.	ARGENTINA	TOUR
MERCURY INVESTMENTS LIMITADA	MOZAMBIQUE	TOUR
GAMETRACKERS MANAGEMENT LTD (NYATI LODGE)	MOZAMBIQUE	TOUR
HERMITAGE HOSPITALITY FRANCHISING LIMITED	RUSSIA	TOUR
M/N BUTLER MIMARLAR ARASTIRMA TASARI LTD.	TURKEY	TOUR
COMPANIA GENERAL DE COMERCIO E INDUSTRIA SA	ARGENTINA	TOUR
SOM OTELCILIK VE TURIZM TICARET A.S.	TURKEY	TOUR
TANRUSS INVESTMENT LTD	TANZANIA	TOUR
TANRUSS INVESTMENT LTD	TANZANIA	TOUR
ARMENIA HOTEL COMPLEX CLOSED JSC	ARMENIA	TOUR
JOINT STOCK COMPANY HOTEL TBILISI	GEORGIA	TOUR
IZMIR INTERNATIONAL HOTEL AS	TURKEY	TOUR
SOM OTELCILIK VE TURIZM TICARET A.S.	TURKEY	TOUR
MORUMBY HOTEIS LTDA.	BRAZIL	TOUR
AMERICAN MONOLITH LTD	GEORGIA	TRAN
RED CARRETERAS DE OCCIDENTE, S. DE RL DE CV	MEXICO	TRAN
TRANSNATIONAL AUTOMOTIVE GROUP-CAMEROON S.A.	CAMEROON	TRAN
PACIFIC SUBSEA SAIPAN 2	THAILAND	TRAN
PACIFIC SUBSEA SAIPAN 3	THAILAND	TRAN
PACIFIC SUBSEA SAIPAN, INC.	THAILAND	TRAN
DAYSTAR AIRWAYS LTD (DBA NEVIS EXPRESS)	ST. CHRISTOPHER & NEVIS	TRAN
DAYSTAR AIRWAYS	ST. CHRISTOPHER & NEVIS	TRAN
NORTH AMERICAN FLOAT PLANE SERVICE SAC	PERU	TRAN
LODOM SP.ZO.O-FACILITY B	POLAND	TRAN
PACIFIC INTERNATIONAL HOLDINGS, INC.	GEORGIA	TRAN
CORPORACION QUIPORT S.A.	ECUADOR	TRAN
TARSIAN & BLINKLEY LLC	AFGHANISTAN	N/A
ABC.R.O., INC	EUROPE/EURASIA	N/A
MASKAN, INC. (Tranche B)	AFGHANISTAN	N/A
BESCH INT'L, INC/SAN MARTIN FARMS CIA. LTDA.	ECUADOR	N/A
GLOBAL RAILROAD LEASING, LLC	BRAZIL	N/A
LIVING WATER INTERNATIONAL	KENYA	N/A
BAGRAM FRUIT PACKING COMPANY	AFGHANISTAN	N/A
GAMA LTD	GEORGIA	N/A
SPORTS INTERNATIONAL BILKENT FITNESS VE SPOR	TURKEY	N/A
BRAZILIAN EMERALDS,INC.	BRAZIL	N/A
COMPANIA GENERAL DE COMERCIO E INDUSTRIA SA	ARGENTINA	N/A
BIURO PROJEKTOWANIA SYSTEMOW CYFROWYCH S.A.	POLAND	N/A
BAJA TRANSPORTATION/BAJA SALT	EL SALVADOR	N/A
DARA SALAM REAL ESTATE DEVELOPERS	GHANA	N/A
UNIGESTION HOLDING S.A. (digicel Haiti)	HAITI	N/A
WEND-REY RESTAURANTS LTD	MEXICO	N/A
GLOBAL RAILROAD LEASING, LLC	BRAZIL	N/A
FARO DE AQUA SA DE C.V.	MEXICO	N/A
ASIAN CREDIT FUND CREDIT COOP LLC	KAZAKHSTAN	N/A
OOO AIR STRUCTURES AMERICAN TECHNOLOGIES	RUSSIA	N/A
V-TRAC HOLDINGS Ltd	VIETNAM	N/A
SHORE OVERSEAS AZERBAIJAN	AZERBAIJAN	N/A
THE POWERSOURCE GROUP LLC	PHILIPPINES	N/A
XTREME CINEMAS, SRL De C.V./iehc, Inc	MEXICO	N/A
CLOSED JOINT STOCK COMPANY shvydko-ukraine 2	UKRAINE	N/A
LEMNA DE MEXICO S.A. De C.V.	MEXICO	N/A
CLOSED JOINT STOCK COMPANY shvydko-ukraine 1	UKRAINE	N/A
CENTURY 21 RUSSIA	RUSSIA	N/A
PAKISTAN MORTGAGE GUARANTY TRUST	PAKISTAN	N/A
GAME VIEWERS LTD / GAME TRACKERS (17hana17na)ltd	BOTSWANA	N/A
TIGER MACHINERY COMPANY LLC	RUSSIA	N/A
INTERNATIONAL VILLAGE PRISTINA	KOSOVO	N/A
MICROFINANCE INTERNATIONAL CORPORATION	LATIN AMERICA REGIONAL	N/A
CNIS-OJSC RG BRANDS	KAZAKHSTAN	N/A
DEAMAR NIGERIA LLC	NIGERIA	N/A
TEKFENBANK	TURKEY	N/A

PROJECT NAME	COUNTRY	SECTOR
XTREME CINEMAS S.DE RI/XTREME DEL PONIENTE	MEXICO	N/A
BANCO UNO SA	PANAMA	N/A
BAN-FINANCIERA COMPARTAMOS S.A.	MEXICO	N/A
GLOBAL RAILROAD LEASING, LLC	BRAZIL	N/A
MEDYCYNĄ RODZINNA S.A.	POLAND	N/A
AFGHANISTAN RENEWAL FUND, LTD	AFGHANISTAN	N/A
ZAO MS-SPETSTELEKOM	RUSSIA	N/A
RIO VERDE, S.A.	NICARAGUA	N/A
ZAO ASTON	RUSSIA	N/A
GUATEMALA MORTGAGE CORPORATION	GUATEMALA	N/A
SIRIUS WIRELESS, LTD	NIGERIA	N/A
WBC-NEWCOM LTD	LATIN AMERICA REGIONAL	N/A
DODSON-LINDBLOM HYDRO POWER PRIVATE LTD	INDIA	N/A
NCB2-FINANSBANK A.S.	TURKEY	N/A
CAFR-MILLICOM GHANA LTD	GHANA	N/A
TECNOQUAT S.A.	GUATEMALA	N/A
ABSOLUT BANK	RUSSIA	N/A
CITIBANK N.A. (al-mansour automotive co)	EGYPT	N/A
CNIS-OAO NIZHEKAMSKNEFTEKHIM (nknk)	RUSSIA	N/A
TAVL LIMITED (hyatt regency 18hana)	AFGHANISTAN	N/A
DENIZBANK ISTANBUL	TURKEY	N/A
LKI, INTERNATIONAL	NAMIBIA	N/A
CE LUZON GEOTHERMAL POWER CO	PHILIPPINES	N/A
HIDROELECTRICA RIO HONDO S.A.	GUATEMALA	N/A
PUERTO QUETZAL POWER LLC	GUATEMALA	N/A
EMPRESA DE TELECOMMUNICATIONS NUEVATEL SA	BOLIVIA	N/A
IRAQ MIDDLE MARKET FACILITY – Tranche B	IRAQ	N/A
CMS ENSENADA S.A.	ARGENTINA	N/A
LIMA AIRPORT PARTNERS S.R.L	PERU	N/A
LIVING WATER INTERNATIONAL (18hana)	GHANA	N/A
TNT PRODUCTIONS INTERNATIONAL INC	KAZAKHSTAN	N/A
INFINITY	NICARAGUA	N/A
FOURSAN	JORDAN	N/A
CEMACO	GUATEMALA	N/A
MILLICOM (CITIBANK)	TANZANIA	N/A
WBC-ICS PRIME CAPITAL	MOLDOVA	N/A
BANK POSITIF KREDIT	TURKEY	N/A
AL-QUDS BANK	WEST BANK	N/A
INDEPENDENT LEASING LLC	RUSSIA	N/A
CMFI (CITIBANK) PHILIPPINES	PHILIPPINES	N/A
STACK GROUP – SAFE DATA SERVICES	RUSSIA	N/A
SANGHVI MOTORS	INDIA	N/A
INSURANCE		
INVERSIONES AGROPECUARIAS, S.A.	NICARAGUA	AGRI
FARMER GEORGE LIMITED	GHANA	AGRI
GRANTON SAFARIS CC	SOUTH AFRICA	AGRI
BAGRAM FRUIT PACKING COMPANY	AFGHANISTAN	AGRI
FINCA LA CRUZ	ARGENTINA	AGRI
MINISTRY OF WATER RESOURCES	IRAQ	AGRI
BAGRAM FRUIT PACKING COMPANY	AFGHANISTAN	AGRI
INTERNATIONAL FOUNDATION OF HOPE	AFGHANISTAN	AGRI
EL SALADERO, UY SRL	URUGUAY	AGRI
SEMINOLE S.A.	NICARAGUA	AGRI
SIBERIAN FARMS L.L.C.	RUSSIA	AGRI
FINCA CALLE LARGA, CALLE LARGE VIEJA	ARGENTINA	AGRI
EL SALADERO, UY SRL	URUGUAY	AGRI
N/A	GUINEA-BISSAU	AGRI
BEST VALUE ZAMBIA LIMITED	ZAMBIA	AGRI
ZAO VG ENTERPRISES INC	RUSSIA	AGRI
DESARROLLO INDUSTRIAL BIOACUATICO SA (DIBSA)	ECUADOR	AGRI
CAMANICA SA	NICARAGUA	AGRI
VIETNAMNET MEDIA JOINT STOCK COMPANY	VIETNAM	COMM
MINISTRY OF INTERIOR AFFAIRS OF THE REPUBLIC OF SERBIA	SERBIA	COMM
BRASIL TELECOM, S.A.	BRAZIL	COMM
KATEL JOINT VENTURE	KYRGYZ REPUBLIC	COMM

PROJECT NAME	COUNTRY	SECTOR
TECONVI SA	BRAZIL	COMM
MINISTRY OF INTERIOR	MACEDONIA	COMM
VEN WORLD TELECOM CA	VENEZUELA	COMM
RURALFONE DO BRASIL, LTDA.	BRAZIL	COMM
RURALFONE DO BRASIL, LTDA.	BRAZIL	COMM
RURALFONE DO BRASIL, LTDA.	BRAZIL	COMM
RURALFONE DO BRASIL, LTDA.	BRAZIL	COMM
RURALFONE DO BRASIL, LTDA.	BRAZIL	COMM
RURALFONE DO BRASIL, LTDA.	BRAZIL	COMM
AXS BOLIVIA S.A.	BOLIVIA	COMM
NETMASTER COMMUNICATIONS S.R.L.	ROMANIA	COMM
CAICOS TELEVISION HOLDINGS LTD.	TURKS & CAICOS ISLANDS	COMM
VIETNAMNET MEDIA JOINT STOCK COMPANY	VIETNAM	COMM
AFCO – KANDAHAR VALLEY, LLC	AFGHANISTAN	CONS
MUTUAL VENTURES LIMITED	TANZANIA	CONS
ADMINISTRADORA DE INVERSIONES PEGGY, S.A.	GUATEMALA	CONS
S.C. EMPIRE TOWER S.R.L.	ROMANIA	CONS
OPEN JOINT STOCK COMPANY TERMINAL	RUSSIA	CONS
SOUTHERN COASTAL PROPERTIES NICARAGUA, S.A., C/O FERNANDO	NICARAGUA	CONS
MINISTRY OF WATER RESOURCES	IRAQ	CONS
MINISTRY OF FINANCE OF THE DEMOCRATIC REPUBLIC OF CONGO	CONGO	CONS
MINISTRY OF FINANCE OF THE DEMOCRATIC REPUBLIC OF CONGO	CONGO	CONS
ARC CONSTRUCTION COMPANY, LLC	AFGHANISTAN	CONS
ENTERPRISE HOMES TANZANIA LIMITED, C/O ISHENGOMA, MASHA	TANZANIA	CONS
GLOBAL HOUSING DEVELOPMENT, S.A.	HONDURAS	CONS
GENERAL DIRECTORATE OF HIGHWAYS	TURKEY	CONS
AMERICAN INTERNATIONAL SCHOOL OF ABUJA	NIGERIA	CONS
MINISTRY OF FINANCE OF THE DEMOCRATIC REPUBLIC OF CONGO	CONGO	CONS
ALTERRA PARTNERS LLC	PERU	CONS
NA	KENYA	CONS
HRVATSKE AUTOCESTE DOO	CROATIA	CONS
AMERICAN INTERNATIONAL SCHOOL OF ABUJA	NIGERIA	CONS
FINANCIERA TFC, S.A.	PERU	FIN
OOO MORGAN STANLEY BANK	RUSSIA	FIN
BANCO DE CREDITO CENTROAMERICANO, S.A.	NICARAGUA	FIN
MORGAN STANLEY DO BRASIL LTDA.	BRAZIL	FIN
HSBC BANK OF BRAZIL SA – BANCO MULTIPLO	BRAZIL	FIN
NATIONAL ROAD OPERATING & CONSTRUCTION CO	JAMAICA	FIN
PROFICIO D.D.	CROATIA	FIN
GHANA HOME LOANS (FUND I) LIMITED	GHANA	FIN
KOMPANION FINANCIAL GROUP	KYRGYZ REPUBLIC	FIN
HONDURAS HOMES, S.A.	HONDURAS	FIN
KOMPANION FINANCIAL GROUP	KYRGYZ REPUBLIC	FIN
ASYA KATILIM BANKASI A.S.	TURKEY	FIN
BANCO PINE	BRAZIL	FIN
MERODENT ZIMBABWE (PVT.) LTD.	ZIMBABWE	MFR
MINISTRY OF WATER RESOURCES	IRAQ	MFR
NATIONWIDE GROUP OF COMPANIES, INC.	LIBERIA	MFR
MERODENT ZIMBABWE (PVT.) LTD.	ZIMBABWE	MFR
NATURA BEVERAGE SARL	CAMEROON	MFR
MINISTRY OF WATER RESOURCES	IRAQ	MFR
ZAO "ISP OPTICS, SAINT-PETERSBURG"	RUSSIA	MFR
MERODENT ZIMBABWE (PVT.) LTD.	ZIMBABWE	MFR
MINISTRY OF WATER RESOURCES	IRAQ	MFR
MINISTRY OF WATER RESOURCES	IRAQ	MFR
A. STUCKI – RAIL	UKRAINE	MFR
NOT APPLICABLE	AFGHANISTAN	MFR
MERODENT ZIMBABWE (PVT.) LTD.	ZIMBABWE	MFR
A. STUCKI RAIL	UKRAINE	MFR
A. STUCKI – RAIL	UKRAINE	MFR
SORWATHE S.A.R.L.	RWANDA	MFR
ACAI DO AMAPA AGROINDUSTRIAL LTDA.	BRAZIL	MFR
INSTRUM-RAND	RUSSIA	MFR
AFGHANISTAN NATURAL BEVERAGES	AFGHANISTAN	MFR
MINOTERIE DU CONGO, S.A.	CONGO	MFR

PROJECT NAME	COUNTRY	SECTOR
AFGHANISTAN BEVERAGE INDUSTRIES (ABI GROUP, LIMITED)	AFGHANISTAN	MFR
GOLDEN CYPRESS WATER CO., LTD/MRS ALMERA GUBA-GOULD	PHILIPPINES	MFR
GOLDEN CYPRESS WATER CO., LTD/MRS ALMERA GUBA-GOULD	PHILIPPINES	MFR
ZAO ISP OPTICS ST. PETERSBURG	RUSSIA	MFR
DOMES INTERNATIONAL INC – INDIA MANUFACTURING DIVISION	INDIA	MFR
CUIRS HAWTAN S.A.	HAITI	MFR
ISP OPTICS SANKT PETERSBURG	RUSSIA	MFR
KIMBERLY-CLARK PERU SA	PERU	MFR
KIMBERLY-CLARK COSTA RICA	COSTA RICA	MFR
COLOMBIANA KIMBERLY SA	COLOMBIA	MFR
MOLINOS DEL ECUADOR CA	ECUADOR	MFR
ANTARCTICA EMPREENDIMENTOS E PARTICIPACOES LTDA.	BRAZIL	MFR
PSI DO BRASIL SERVICIOS DE SEGURANCA LTDA	BRAZIL	MFR
ABI GROUP LTD.	AFGHANISTAN	MFR
AFRITRACK ANGOLA LDA	ANGOLA	MFR
KWABA – SOCIEDADE INDUSTRIAL E COMERCIAL, S.A.R.L.	ANGOLA	MFR
LES MOULINS D'HAITI S.E.M.	HAITI	MFR
LES MOULINS D'HAITI S.E.M. (LMH)	HAITI	MFR
INSTRUM-RAND	RUSSIA	MFR
LESOTHO FLOUR MILLS LIMITED	LESOTHO	MFR
MINOTERIE DE MATADI, S.A.R.L.	CONGO, DEM. REPUBLIC OF	MFR
MINOTERIE DU CONGO, S.A.	CONGO	MFR
MOBEIRA, SARL	MOZAMBIQUE	MFR
MINOTERIE DE MATADI, S.A.R.L.	CONGO, DEM. REPUBLIC OF	MFR
PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY (“WAPDA”)	PAKISTAN	MFR
PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY (“WAPDA”)	PAKISTAN	MFR
KIMBERLY-CLARK VIETNAM CO., LTD.	VIETNAM	MFR
NATIONAL MILLING COMPANY LIMITED	ZAMBIA	MFR
COCA-COLA NIGERIA LIMITED	NIGERIA	MFR
EQUATE PETROCHEMICAL COMPANY K.S.C. (CLOSED)	KUWAIT	MFR
COLOMBIANA UNIVERSAL DE PAPELES SA	COLOMBIA	MFR
AFRITRACK ANGOLA LDA	ANGOLA	MFR
PT CABOT CHEMICAL	INDONESIA	MFR
KIMBERLY-CLARK THAILAND LIMITED	THAILAND	MFR
COLOMBIANA KIMBERLY COLPAPEL SA	COLOMBIA	MFR
KIMBERLY-CLARK PHILIPPINES INC	PHILIPPINES	MFR
MAKSAN MANISA MESRUBAT KUTULAMA SANAYI AS	TURKEY	MFR
WHITE STAR USA	RUSSIA	MINE
SECTOR RESOURCES, LTD. BRANCH	COLOMBIA	MINE
EMPRESA MINERA MANQUIRI S.A.	BOLIVIA	MINE
SOCIEDAD MINERA CERRO VERDE, S.A.A.	PERU	MINE
WHITE STAR USA	RUSSIA	MINE
N/A	NICARAGUA	OIL
MKJ EXPLORACIONES INTERNACIONALES, S.A.	NICARAGUA	OIL
MKJ EXPLORACIONES INTERNACIONALES, S.A.	NICARAGUA	OIL
N/A	NICARAGUA	OIL
PT TUCAN PUMPCO SERVICES INDONESIA	INDONESIA	OIL
WEST AFRICAN GAS PIPELINE COMPANY LIMITED	BENIN	OIL
WEST AFRICAN GAS PIPELINE COMPANY LIMITED	TOGO	OIL
BAKU OIL TOOLS LTD	AZERBAIJAN	OIL
MKJ EXPLORACIONES INTERNACIONALES, S.A.	NICARAGUA	OIL
FOXTROT INTERNATIONAL LDC	COTE DIVOIRE	OIL
WEST AFRICAN GAS PIPELINE COMPANY LIMITED	GHANA	OIL
VARIOUS APACHE EGYPT CONCESSION SUBSIDIARIES	EGYPT	OIL
THE BAKU-TBILISI-CEYHAN PIPELINE COMPANY	AZERBAIJAN	OIL
N/A	EGYPT	OIL
PERFORACIONES WESTERN, CA	VENEZUELA	OIL
PRIDE FORASOL SAS	CHAD	OIL
ISRAEL ELECTRIC CORPORATION LTD	ISRAEL	OIL
ZETA GAS DE CENTRO AMERICA S.A.	GUATEMALA	OIL
	PHILIPPINES	POWER
DV TECHNOLOGIES D.O.O. BELGRADE	SERBIA	POWER
DV TECHNOLOGIES D.O.O. BELGRADE	SERBIA	POWER
SEP ENERGY INDIA PVT. LTD.	INDIA	POWER
SEP ENERGY PVT. LTD.	INDIA	POWER

PROJECT NAME	COUNTRY	SECTOR
KHOZNER HPP	KOSOVO	POWER
MATH HYDRO POWER (PVT) LIMITED	SRI LANKA	POWER
PUERTO CABEZAS POWER S.A.	NICARAGUA	POWER
P.H. RIO VOLCAN,S.A.	COSTA RICA	POWER
DOMINICA ELECTRICITY SERVICES LTD. ("DOMLEC")	DOMINICA	POWER
TERMOVALLE S.C.A. E.S.P.	COLOMBIA	POWER
FABMIK CONSTRUCTION & EQUIPMENT CO INC	PHILIPPINES	POWER
TIPITAPA POWER COMPANY LTD.	NICARAGUA	POWER
GAZA POWER GENERATING PRIVATE LIMITED COMPANY	GAZA	POWER
KIDWELL INTERNATIONAL POWER VIETNAM COMPANY LIMITED	VIETNAM	POWER
GRENADA ELECTRICITY SERVICES LIMITED	GRENADA	POWER
HABIBULLAH COASTAL POWER (PRIVATE) COMPANY	PAKISTAN	POWER
CONTOURGLOBAL TOGO S.A.	TOGO	POWER
CE CASECNAN WATER AND ENERGY COMPANY, INC.	PHILIPPINES	POWER
GAZA POWER GENERATING PRIVATE LIMITED COMPANY	GAZA	POWER
P.H. DON PEDRO, S.A.	COSTA RICA	POWER
DOGA ENERJI URETIM SANAYI VE TICARET L.S.	TURKEY	POWER
P.H. RIO VOLCAN, S.A.	COSTA RICA	POWER
TERMOVALLE S.C.A. E.S.P.	COLOMBIA	POWER
CE CASECNAN WATER AND ENERGY COMPANY, INC.	PHILIPPINES	POWER
TERMOBARRANQUILLA S.A., EMPRESA DE SERVICIOS PUBLICOS	COLOMBIA	POWER
AES NIGERIA BARGE LIMITED	NIGERIA	POWER
NATIONAL POWER CORPORATION ("NAPOCOR")	PHILIPPINES	POWER
THE NATIONAL POWER CORPORATION	PHILIPPINES	POWER
BHOTE KOSHI PRIVATE COMPANY PVT LTD	NEPAL	POWER
TIPITAPA POWER COMPANY LTD.	NICARAGUA	POWER
PT ENERGI SENGKANG	INDONESIA	POWER
CBK POWER COMPANY LIMITED	PHILIPPINES	POWER
TURBOVEN MARACAY COMPANY	VENEZUELA	POWER
TURBOVEN CAGUA COMPANY	VENEZUELA	POWER
ISAGAN SA ESP	COLOMBIA	POWER
THE AMERICAN COOPERATIVE SCHOOL OF TUNISIA	TUNISIA	SVC
N/A	LEBANON	SVC
KHUDAIRI TRADING COMPANY LTD.	IRAQ	SVC
UNIVERSAL STAR CO.	UKRAINE	SVC
N/A	UKRAINE	SVC
HILL ESTATES LIMITED, P.O. BOX 31617	ZAMBIA	SVC
AMERICAN UNIVERSITY OF BEIRUT	LEBANON	SVC
N/A	LEBANON	SVC
TOTAL ARTEFACTOS S.A.	PERU	SVC
SAMARA OBLAST	RUSSIA	SVC
MINISTRY OF HEALTH OF SAMARA OBLAST	RUSSIA	SVC
HERCULES LIFTBOAT COMPANY NIGERIA LIMITED	NIGERIA	SVC
NA	IRAQ	SVC
COMPEXPO	HUNGARY	SVC
	RISK	SVC
RELIEF INTERNATIONAL BRANCH OFFICE	AFGHANISTAN	SVC
RELIEF INTERNATIONAL BRANCH OFFICE	PAKISTAN	SVC
RELIEF INTERNATIONAL BRANCH OFFICE	BANGLADESH	SVC
RELIEF INTERNATIONAL BRANCH OFFICES	JORDAN	SVC
RELIEF INTERNATIONAL BRANCH OFFICE	TAJIKISTAN	SVC
RELIEF INTERNATIONAL BRANCH OFFICE	INDONESIA	SVC
THE ASIA FOUNDATION	MONGOLIA	SVC
THE ASIA FOUNDATION	EAST TIMOR	SVC
THE ASIA FOUNDATION	FIJI	SVC
INTERNATIONAL RESCUE COMMITTEE	COLOMBIA	SVC
THE INTERNATIONAL RESCUE COMMITTEE	JORDAN	SVC
INTERNATIONAL RESCUE COMMITTEE	NEPAL	SVC
DIRECTORATE GENERAL PROCUREMENT	PAKISTAN	SVC
THE ASIA FOUNDATION	BANGLADESH	SVC
RELIEF INTERNATIONAL BRANCH OFFICES	SRI LANKA	SVC
GILBERTO JUAN MORALES GONZALEZ, D/B/A FERRETERIA MORALES	NICARAGUA	SVC
THE ASIA FOUNDATION	SRI LANKA	SVC
THE ASIA FOUNDATION	PAKISTAN	SVC
RELIEF INTERNATIONAL BRANCH OFFICE	AZERBAIJAN	SVC

PROJECT NAME	COUNTRY	SECTOR
RELIEF INTERNATIONAL BRANCH OFFICE	SOMALIA	SVC
RELIEF INTERNATIONAL HEBRON CENTER OF EXCELLENCE	WEST BANK	SVC
RELIEF INTERNATIONAL BRANCH OFFICES	LEBANON	SVC
THE ASIA FOUNDATION	VIETNAM	SVC
THE ASIA FOUNDATION	CAMBODIA	SVC
INTERNATIONAL RESCUE COMMITTEE, INC. – BRANCH OFFICES	CHAD	SVC
THE ASIA FOUNDATION	NEPAL	SVC
THE ASIA FOUNDATION	PHILIPPINES	SVC
THE ASIA FOUNDATION BRANCH OFFICES	THAILAND	SVC
INTERNATIONAL RESCUE COMMITTEE – ERITREA	ERITREA	SVC
INTERNATIONAL RESCUE COMMITTEE, INC. BRANCH OFFICES	CENTRAL AFRICAN REPUBLIC	SVC
THE ASIA FOUNDATION	KOREA (SOUTH)	SVC
INTERNATIONAL COMMUNITY SCHOOL, LIMITED	GHANA	SVC
IRC BRANCH OFFICE	THAILAND	SVC
INTERNATIONAL RESCUE COMMITTEE, INC.	AZERBAIJAN	SVC
INTERNATIONAL RESCUE COMMITTEE, INC.	BOSNIA-HERZEGOVINA	SVC
INTERNATIONAL RESCUE COMMITTEE, INC.	CONGO	SVC
ASIA FOUNDATION	AFGHANISTAN	SVC
JL. ADITYAWARMAN	INDONESIA	SVC
COLITE NICARAGUA S.A.	NICARAGUA	SVC
INTERNATIONAL RESCUE COMMITTEE, INC.	RUSSIA	SVC
INTERNATIONAL RESCUE COMMITTEE, INC.	RWANDA	SVC
GOVERNMENT OF ANTIGUA AND BARBUDA	ANTIGUA & BARBUDA	SVC
INTERNATIONAL RESCUE COMMITTEE – KENYA	KENYA	SVC
INTERNATIONAL RESCUE COMMITTEE – BRANCH OFFICES	ETHIOPIA	SVC
S&N PUMP AFRICA LDA	ANGOLA	SVC
INTERNATIONAL RESCUE COMMITTEE, INC. – GUINEA	GUINEA	SVC
INTERNATIONAL RESCUE COMMITTEE – PAKISTAN	PAKISTAN	SVC
UNION "QSI INTERNATIONAL SCHOOL OF TBILISI"	GEORGIA	SVC
INTERNATIONAL RESCUE COMMITTEE, INC. – BRANCH OFFICES	UGANDA	SVC
RIO VERDE WATER CONSORTIUM, INC.	PHILIPPINES	SVC
AMERICAN COOPERATIVE SCHOOL OF TUNIS (ACST) ASSOCIATION	TUNISIA	SVC
COLITE EL SALVADOR S.A., C/O RUSCONI -	EL SALVADOR	SVC
SWEETWATER PAKISTAN (PRIVATE) LTD.	PAKISTAN	SVC
INTERNATIONAL RESCUE COMMITTEE	LIBERIA	SVC
INTERNATIONAL RESCUE COMMITTEE – JAKARTA	INDONESIA	SVC
INTERNATIONAL RESCUE COMMITTEE, INC. BRANCH OFFICES	TANZANIA	SVC
TASHKENT INTERNATIONAL SCHOOL	UZBEKISTAN	SVC
INTERNATIONAL RESCUE COMMITTEE	BURUNDI	SVC
COLITE COSTA RICA, S.A.	COSTA RICA	SVC
COLITE GUATEMALA, S.A.	GUATEMALA	SVC
INTERNATIONAL RESCUE COMMITTEE, INC.	AFGHANISTAN	SVC
INTERNATIONAL RESCUE COMMITTEE, INC. – BRANCH OFFICES	SIERRA LEONE	SVC
WADE RAIN DE MEXICO, S. DE R.L. DE C.V.	MEXICO	SVC
COLITE PANAMA, S.A.	PANAMA	SVC
COLITE HONDURAS, S.A.	HONDURAS	SVC
INTERNATIONAL RESCUE COMMITTEE, INC. BRANCH OFFICES	CONGO, DEM. REPUBLIC OF	SVC
AMERICAN INTERNATIONAL SCHOOL SYSTEM PRIVATE LIMITED	PAKISTAN	SVC
COLITE PANAMA, S.A.	PANAMA	SVC
COLITE EL SALVADOR SA	EL SALVADOR	SVC
COLITE HONDURAS, S.A.	HONDURAS	SVC
COLITE NICARAGUA S.A.	NICARAGUA	SVC
INTERNATIONAL BUSINESS SERVICES	AFGHANISTAN	SVC
KABUL MASKAN COMPANY LTD (KMC)	AFGHANISTAN	SVC
GEORGIAN LEASING COMPANY LTD	GEORGIA	SVC
INTERNATIONAL RESCUE COMMITTEE INC	JORDAN	SVC
GEORGIAN LEASING COMPANY LTD	GEORGIA	SVC
PRINCETON HEALTHCARE DO BRAZIL LTD	BRAZIL	SVC
MEDPHARM INC	ETHIOPIA	SVC
FABMIK CONSTRUCTION & EQUIPMENT CO INC	PHILIPPINES	SVC
LEMNA DE MEXICO, SA DE CV	MEXICO	SVC
HERCULES LIFTBOAT COMPANY NIGERIA LIMITED	NIGERIA	SVC
COMPANIA GENERAL DE COMERCIO E INDUSTRIA S.A.	ARGENTINA	TOUR
JOINT VENTURE ITALKYR CJSC	KYRGYZ REPUBLIC	TOUR
ARMENIA HOTEL COMPLEX CLOSED JOINT STOCK COMPANY	ARMENIA	TOUR

PROJECT NAME	COUNTRY	SECTOR
SEVEN HILLS INTERNATIONAL HOTEL, TOURISM & TRADE A.S.	TURKEY	TOUR
TAYL LIMITED	AFGHANISTAN	TOUR
JOINT VENTURE ITALKYR CJSC	KYRGYZ REPUBLIC	TOUR
M/N BUTLER MIMARLAR ARASTIRMA TASARI VE YAPI LTD. STI.	TURKEY	TOUR
M/N BUTLER MIMARLAR ARASTIRMA TASARI VE YAPI LTD. STI.	TURKEY	TOUR
MALIKA BARIKHASI, LLC/MALIKA HOTEL BUKHARA	UZBEKISTAN	TOUR
M/N BUTLER MIMARLAR ARASTIRMA TASARI VE YAPI LTD. STI.	TURKEY	TOUR
KHIVA MALIKASI, LLC	UZBEKISTAN	TOUR
SEMINOLE S.A.	NICARAGUA	TOUR
MALIKA BARIKHASI, LLC/MALIKA HOTEL BUKHARA	UZBEKISTAN	TOUR
KHIVA MALIKASI, LLC	UZBEKISTAN	TOUR
TAKOMA LTD	UZBEKISTAN	TOUR
CONSOLIDADA DE FERRYS C.A. (CONFERRY)	VENEZUELA	TRAN
CORPORACION QUIPORT S.A.	ECUADOR	TRAN
CORPORACION QUIPORT S.A.	ECUADOR	TRAN
CONSOLIDADA DE FERRYS, C. A. (CONFERRY)	VENEZUELA	TRAN
KWAPA TRADING CO	Liberia	N/A
ST. MICHAEL ENTERPRISES	Yugoslavia	N/A
OTHER		
AMERICAN EQUIPMENT CO., FLUOR CORP	IRAQ	N/A
MINISTRY OF WATER RESOURCES, BALTIMORE DREDGE	IRAQ	N/A
IMMDF, CITIBANK	IRAQ	N/A
TRADE BANK OF IRAQ, CITIBANK	IRAQ	N/A
SIGMA IRAQ LLC, SIGMA INTERNATIONAL CONSTRUCT	IRAQ	N/A
A. KHUDAIRI TRADING CO	IRAQ	N/A
MINISTRY OF WATER RESOURCES, UNITED MARINE INT'L	IRAQ	N/A
AL MANSOUR AUTOMOTIVE CO, CITIBANK	IRAQ	N/A
NATIONAL HOUSEHOLD PRODUCTS CO., CITIBANK	IRAQ	N/A
AL KHALIJ LABORATORIES-PHOTO SERVICES, CITIBANK	IRAQ	N/A
TECHNOLOGY PARTNERS, CITIBANK	IRAQ	N/A
AL-BAREEQ AIR CONDITIONING, CITIBANK	IRAQ	N/A
FURAT WATER, CITIBANK	IRAQ	N/A
BAZIAN BRICKS PRODUCTION COMPANY, CITIBANK	IRAQ	N/A
HILAL AL KHAIR, CITIBANK	IRAQ	N/A
AL MUHANAD PLASTICS, CITIBANK	IRAQ	N/A
AL YOUSIF MODERN WHEAT FACTORIES, CITIBANK	IRAQ	N/A
DARCO WOODWORKING, CITIBANK	IRAQ	N/A
ROZHANO CO FOR GLASS MANUFACTURE, CITIBANK	IRAQ	N/A
AL HARMOOSH FOR GENERAL TRADING TOURISM/TRAVEL, CITIBANK	IRAQ	N/A
AL IHSAN AL DEEM, CITIBANK	IRAQ	N/A
QASIM JAWHAR KAREEM COMPANY (KURDISTAN FLOUR MILL), CITIBANK	IRAQ	N/A
KAIS PLANT FOR MINERAL WATER AND JUICE PRODUCTION, CITIBANK	IRAQ	N/A
JASSIM ROCK CRUSHER GRAVEL AND SAND CATEGORIZATION FACTORY, CITIBANK	IRAQ	N/A
RASUN COMPANY FOR POULTRY, CITIBANK	IRAQ	N/A
BURJ AL FANAR FOR READY MIX CONCRETE CO	IRAQ	N/A
STUDENT SOLIDARITY ORGANIZATION, CITIBANK	IRAQ	N/A
AL-MANSOUR AUTOMOTIVE COMPANY, CITIBANK	IRAQ	N/A
CINEMA SINBAD HOTEL COMPANY, ARCADD INC	IRAQ	N/A
MINISTRY WATER RESOURCES, BALTIMORE DREDGES	IRAQ	N/A
MINISTRY WATER RESOURCES, BALTIMORE DREDGES	IRAQ	N/A
MINISTRY WATER RESOURCES, BALTIMORE DREDGES	IRAQ	N/A
MINISTRY WATER RESOURCES, BALTIMORE DREDGES	IRAQ	N/A
MINISTRY WATER RESOURCES, BALTIMORE DREDGES	IRAQ	N/A
BEARING POINT IRAQ, BEARING POINT INC	IRAQ	N/A
IRAQI MIDDLE MARKET FINANCING FACILITY (IMMFF) FRAMEWORK AGREEMENT, CITIBANK	IRAQ	N/A
IRAQ MIDDLE MARKET DEVELOPMENT FOUNDATION	IRAQ	N/A
TRADE BANK OF IRAQ II, CITIBANK	IRAQ	N/A
ERBILL RESIDENTIAL DEVELOPMENT COMPANY, ERBIL HOUSING PROJECT	IRAQ	N/A
SGV MANAGEMENT COMPANY, ERBIL RESIDENTIAL DEVELOPMENT	IRAQ	N/A
AMERICAN EQUIPMENT CO, FLOUR ENTERPRISES INC	IRAQ	N/A
REPUBLIC OF IRAQ MINISTRY OF ELECTRICITY, GE CAPITAL MARKETS SERVICES	IRAQ	N/A
STATE OIL PROJECTS COMPANY, GENERAL ELECTRIC	IRAQ	N/A
H&W HOLDINGS GROUP LLC	IRAQ	N/A
H&W HOLDINGS GROUP LLC	IRAQ	N/A

PROJECT NAME	COUNTRY	SECTOR
INTERNATIONAL DEVELOPMENT TRUST LTD	IRAQ	N/A
INTERNATIONAL RESCUE COMMITTEE-IRAQ	IRAQ	N/A
IRAQ RECOVERY FUND LLC, EXCALIBUR VENTURES LLC, PRINCE STREET CAPITAL MANAGEMENT LLC, POTOMAC PARTNERS LLC	IRAQ	N/A
A. KHUDAIRI TRADING COMPANY LTD	IRAQ	N/A
KHUDAIRI TRADING COMPANY LTD, AZIZ KHUDAIRI	IRAQ	N/A
IRAQI MINISTRY OF WATER RESOURCES, LIQUID WASTE TECHNOLOGY LLC	IRAQ	N/A
MENA INDUSTRIES INC., MID NATIONAL HOLDINGS	IRAQ	N/A
YAPA MUHENDISLIK INSAAT VE DIS TICARET LTD., MERIDIAN INVESTMENT MANAGEMENT INC	IRAQ	N/A
ORASCOM TELECOM IRAQ CORP, MOTOROLA CREDIT	IRAQ	N/A
MORRIS & MCDANIEL COMPANY	IRAQ	N/A
RELIEF INTERNATIONAL SCHOOLS ONLINE	IRAQ	N/A
RHMK IRAQ FUND, L.P.	IRAQ	N/A
SIGMA IRAQ, SIGMA INT'L CONSTRUCTION LLC	IRAQ	N/A
MINISTRY OF WATER RESOURCES, UNITED MARINE INTERNATIONAL LLC	IRAQ	N/A
ABDUL MAJEED AL-FRAIH GENERAL TRADERS/RAINIA WATERS, CITIBANK	IRAQ	N/A
ADVANCED TECHNOLOGY SYSTEMS, CITIBANK	IRAQ	N/A
AL AZZAWAI, CITIBANK	IRAQ	N/A
AL BAREEQ AIR CONDITIONING, CITIBANK	IRAQ	N/A
AL HARMOOSH GENERAL TRADING, CITIBANK	IRAQ	N/A
AL IHSAN A-DAEEM GENERAL CONTRACTING, CITIBANK	IRAQ	N/A
AL KHALIJ LABORATORIES-PHOTO SERVICES, CITIBANK	IRAQ	N/A
AL MUHANAD CO FOR PLASTIC INDUSTRIES, CITIBANK	IRAQ	N/A
AL RASHEED GYPSUM, CITIBANK	IRAQ	N/A
AL YOUSIF MODERN WHEAT FACTORIES, CITIBANK	IRAQ	N/A
ALIEDAD GENERAL CONSTRUCTION, CITIBANK	IRAQ	N/A
ARABIAN AERATED WATER CO LTD, CITIBANK	IRAQ	N/A
IMMDF-ARKAN HAMID FACTORY, CITIBANK	IRAQ	N/A
BALAK FACTORY, CITIBANK	IRAQ	N/A
BAZIAN BRICKS PRODUCTION CO, CITIBANK	IRAQ	N/A
BECKER FOR MAKING SELLING ALL KINDS, CITIBANK	IRAQ	N/A
BEZA FOR PREPARED CONCRETE LTD, CITIBANK	IRAQ	N/A
BURJ AL FANAR FOR READY MIX CONCRETE, CITIBANK	IRAQ	N/A
DARCO WOODWORKING COMPANY, CITIBANK	IRAQ	N/A
DARZELOCK COMPANY/GENERAL TRADING & EXPORT	IRAQ	N/A
FURAT WATER, CITIBANK	IRAQ	N/A
GARA FACTORY, CITIBANK	IRAQ	N/A
GEBALA CENTER COLLECT AND COOL MILK, CITIBANK	IRAQ	N/A
HASSAN MOHAMMED EINAD FOR WATER, CITIBANK	IRAQ	N/A
IRAQI METAL WEAVING COMPANY, CITIBANK	IRAQ	N/A
JASSIM CRUSHER GRAVEL AND SAND, CITIBANK	IRAQ	N/A
JIDA FOR IRON AND ALUMINUM INDUSTRIES LTD	IRAQ	N/A
K1 GENERAL CONTRACTING CO LTD., CITIBANK	IRAQ	N/A
KAIS PLANT MINERAL WATER, CITIBANK	IRAQ	N/A
IMMDF-KHALAF BLOCK FACTORY, CITIBANK	IRAQ	N/A
KURDISTAN FLOUR MILL, CITIBANK	IRAQ	N/A
LOAY FACTORY FOR ASPHALT PRODUCTION, CITIBANK	IRAQ	N/A
MUTTAHIDA ELECTRICAL BOARDS, CITIBANK	IRAQ	N/A
NAMA GROUP, CITIBANK	IRAQ	N/A
NATIONAL HOUSEHOLD PRODUCTS CO., CITIBANK	IRAQ	N/A
RASUN COMPANY FOR POULTRY LTD, CITIBANK	IRAQ	N/A
ROZHANO COMPANY FOR GLASS MANUFACTURING	IRAQ	N/A
SAMAN MA-RUF ABDULKARIM BARZNI, CITIBANK	IRAQ	N/A
SARQALA COMPANY FOR GENERAL CONTRACT, CITIBANK	IRAQ	N/A
SMAG LOAN, CITIBANK	IRAQ	N/A
STUDENT SOLIDARITY ORGANIZATION, CITIBANK	IRAQ	N/A
STUDENT SOLIDARITY ORGANIZATION, CITIBANK	IRAQ	N/A
TECHNOLOGY PARTNERS, CITIBANK	IRAQ	N/A
YAFA CO FOR FOOD INDUSTRIES, CITIBANK	IRAQ	N/A
FUNDS		
ACTIS SOUTH ASIA FUND, NILGIRI FRANCHISE	INDIA	N/A
RUSSIA PARTNERS II, ISKRA TELECOM	RUSSIA	N/A
RUSSIA PARTNERS II, PSL	NIS REGIONAL	N/A
SEEF II, SERBIA BROADBAND	SERBIA	N/A

PROJECT NAME	COUNTRY	SECTOR
ECP AFRICA, SPENCON	EAST AFRICA REGIONAL	N/A
ACTIS SOUTH ASIA FUND, NAT'L DEVELOPMENT BANK	SRI LANKA	N/A
DARBY-BBVA LATIN AMERICA PRIVATE EQUITY FUND, GRUPO EMPRESARIAL METROPOLITANO (GEMET)	MEXICO	N/A
ECP AFRICA, ECOBANK	WEST AFRICA REGIONAL	N/A
ECP AFRICA, BANK OF AFRICA	AFRICA REGIONAL	N/A
ECP AFRICA, INTERCONTINENTAL BANK	NIGERIA	N/A
ECP AFRICA, CONTINENTAL REINSURANCE	NIGERIA	N/A
ETHOS FUND V, KANDERLANE	SOUTH AFRICA	N/A
ETHOS FUND V, ALEXANDER FORBES	SOUTH AFRICA	N/A
ETHOS FUND V, OCEANIC BANK	NIGERIA	N/A
RUSSIA PARTNERS II, APR BANK MOSCOW	RUSSIA	N/A
ACTIS SOUTH ASIA FUND, CEYLON OXYGEN	SRI LANKA	N/A
AQUA INT'L PARTNERS FUND, GRUPO ROTOPLAST	MEXICO	N/A
ASIAN DEV'T PARTNERS FUND II, PROJECT GREEN	INDIA	N/A
ISRAEL GROWTH FUND, APAX PARTNERS&CO	ISRAEL	N/A
RUSSIA PARTNERS COMPANY LP, SIGULER GUFF & CO	EUROPE/EURASIA	N/A
AIG BRUNSWICK MILLENNIUM FUND, AIG MILLENIUM GP	EUROPE/EURASIA	N/A
AIG BRUNSWICK MILLENNIUM FUND, AIG MILLENIUM GP	EUROPE/EURASIA	N/A
EMERGING EUROPE FUND, TEMPLETON ADVISORS	EUROPE/EURASIA	N/A
RUSSIA PARTNERS COMPANY LP, SIGULER GUFF & CO	EUROPE/EURASIA	N/A
POLAND PARTNERS, LONDON BUTLER & CO	POLAND	N/A
DRAPER INT'L INDIA FUND, DRAPER INTERNATIONAL	INDIA	N/A
INDIA PRIVATE EQUITY FUND, CIBC WORLD MARKETS	INDIA	N/A
AGRIBUSINESS PARTNERS INT'L, AMERICA FIRST CO	EUROPE/EURASIA	N/A
AGRIBUSINESS PARTNERS INTERNATIONAL (BALTICS), AMERICA FIRST COMPANIES	EUROPE/EURASIA	N/A
BANCROFT EASTERN EUROPE FUND	EUROPE/EURASIA	N/A
NEW CENTURY CAPITAL PARTNERS LP, NCH ADVISORS	EUROPE/EURASIA	N/A
NEW CENTURY CAPITAL PARTNERS LP, NCH ADVISORS	EUROPE/EURASIA	N/A
NEW AFRICA OPPORTUNITY FUND LP, ZEPHYR SOUTHERN AFRICA PARTNERS LLC	AFRICA/MIDEAST	N/A
AQUA PARTNERS LP, TARRANT PARTNERS	ALL OPIC	N/A
GLOBAL ENVIRONMENT EMERGING MARKETS FUND LI, GEF MANAGEMENT CORP	ALL OPIC	N/A
ASIA DEVELOPMENT PARTNERS LP, SOUTH ASIA CAPITAL LTD C/O OLYMPUS CAPITAL HOLDINGS	ASIA/PACIFIC	N/A
NEWBRIDGE ANDEAN PARTNERS LP, ACON PARTNERS	LATINAMERICA/CARIBBEAN	N/A
MODERN AFRICA GROWTH AND INVESTMENT COMPANY, CITICORP VENTURES / LAND & MITTENDORF / OTHER	AFRICA/MIDEAST	N/A
AFRICA GROWTH FUND, EQUATOR HOLDINGS LTD	AFRICA/MIDEAST	N/A
MODERN AFRICA GROWTH AND INVESTMENT FUND 2, MODERN AFRICA FUND MANAGERS LLC	AFRICA/MIDEAST	N/A
SOUTHEAST EUROPE EQUITY FUND LTD, BEDMINSTER CAPITAL MANAGEMENT LLC	EUROPE/EURASIA	N/A
GREAT CIRCLE FUND LP (MISF), GREAT CIRCLE CAPITAL	ALL OPIC	N/A
RUSSIA PARTNERS LI O SERIES LP, SIGULER GUFF & CO	EUROPE/EURASIA	N/A
ASIA PACIFIC GROWTH FUND, HAMBRECHT & QUIST ASIA PACIFIC LTD	ASIA/PACIFIC	N/A
DARBY-BBVA LATIN AMERICAN HOLDINGS LLC, DARBY OVERSEAS PARTNERS LTD	LATINAMERICA/CARIBBEAN	N/A
PALADIN REALTY LATIN AMERICA INVESTORS LI LP, PALADOR REALTY I GP, LLC	LATINAMERICA/CARIBBEAN	N/A
EMP AFRICA FUND LI INVESTMENTS LLC, EMP AFRICA MANAGEMENT LP	AFRICA/MIDEAST	N/A
ETHOS PRIVATE EQUITY FUND V, ELIGIBLE US INVESTORS	AFRICA/MIDEAST	N/A
ACTIS SOUTH ASIA FUND 2 LP, ELIGIBLE US INVESTORS	ASIA/PACIFIC	N/A
ASIA DEVELOPMENT PARTNERS LI LP, OLYMPUS ADP II GP, LLC	ASIA/PACIFIC	N/A
CLEARWATER CAPITAL PARTNERS INVESTMENTS II LP	ASIA/PACIFIC	N/A
SOUTHEAST EUROPE EQUITY FUND LTD, BEDMINSTER CAPITAL MANAGEMENT LLC	EUROPE/EURASIA	N/A
BARING MEXICO PRIVATE EQUITY LI FUND, BARING MEXICO II (GP) INC/BARING LATIN AMERICAN HOLDINGS	LATINAMERICA/CARIBBEAN	N/A
ECP MENA GROWTH INVESTMENTS LLC, EMERGING CAPITAL PARTNERS LLC	AFRICA/MIDEAST	N/A
GLOBAL ENVIRONMENT EMERGING MARKET FUND, GEF MANAGEMENT CORP	ALL OPIC	N/A
DARBY PROBANCOS LI FUND, DARBY OVERSEAS PARTNERS LTD	LATINAMERICA/CARIBBEAN	N/A
LATIN POWER TRUST LII, CONDUIT CAPITAL PARTNERS	LATINAMERICA/CARIBBEAN	N/A
DARBY BBVA, GRUPO BAJA CERO	MEXICO	N/A
ACTIS SOUTH ASIA FUND, PARAS PHARMACEUTICALS	INDIA	N/A
AQUA INT'L PARTNERS FUND, SPRINGS OF EDEN BV	POLAND	N/A
ASIAN DEV'T PARTNERS FUND II, SANJHVI MOVERS	KOREA	N/A
DARBY BBVA LATIN AMERICA PRIVATE EQUITY FUND, SATELITE DISTRIBUIDORA DE PETROLEO	BRAZIL	N/A
ETHOS FUND V, MORESPORT	SOUTH AFRICA	N/A
ETHOS FUND V, PLUMBLINK	SOUTH AFRICA	N/A

PROJECT NAME	COUNTRY	SECTOR
RUSSIA PARTNERS II, SOK	RUSSIA	N/A
RUSSIA PARTNERS II, UKRAINE INSURANCE	UKRAINE	N/A
SEEF II, HEDEF	TURKEY	N/A
GREAT CIRCLE CAPITAL, OVERSEAS LOGISTIC (RLS)	RUSSIA	N/A
GREAT CIRCLE CAPITAL, BALNAK LOGISTICS GROUP	TURKEY	N/A
GREAT CIRCLE CAPITAL, STS LOGISTICS	RUSSIA	N/A
ZAO AIST	RUSSIA	N/A
KUJTESDA	KOSOVO	N/A
HIPERDIA	ROMANIA	N/A
HEALTH MANAGEMENT SYSTEM	BULGARIA	N/A
WEST CALL COMMUNICATIONS	RUSSIA	N/A
RUSSIA PARTNERS DIRECT INSURANCE	UKRAINE	N/A
HELIOS PT AFRICA	NETHERLANDS	N/A
HELIOS FIRST CITY MONUMENT BANK	NIGERIA	N/A
EMP AFRICA FUND II	ALGERIA	N/A
PLANOR CAPITAL	MAURITIUS	N/A
BLUE FINANCIAL	SOUTH AFRICA	N/A
SAWHF	SOUTH AFRICA	N/A
ECP MENA – SOCIETE D'ARTICLES HYGIENIQUES	TUNISIA	N/A
HELIOS TOWERS	NIGERIA	N/A
EQUITY BANK	AFRICA	N/A
UNIVERSALB	ALBANIA	N/A
CLEARWATER CAPITAL PARTNERS	ASIA	N/A
INSUN – PROJECT GREEN	SOUTH KOREA	N/A
BIS EOOD – NEW EUROPE DIRECTORIES	BULGARIA	N/A
DIAMANT – KONTAKT INSURANCE	UKRAINE	N/A

APPENDIX B – 2012 ACTIVE PROJECTS

This table list projects active as of September 30, 2013 that were screened as part of the 2012 GHG inventory development process.

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
ACADEMIC MEDICAL CENTER SDN BHD	MALAYSIA	Services
ACAI DO AMAPA AGROINDUSTRIAL LTDA.	BRAZIL	Manufacturing
ACCESS AFRICA FUND	AFRICA REGIONAL	Financial Services
AERIS HOLDING COSTA RICA, S.A..	COSTA RICA	Transportation
AES JORDAN PSC	JORDAN	Energy - Power
AES LEVANT PSC	JORDAN	Energy - Power
AFGHAN GROWTH FINANCE LLC	AFGHANISTAN	Financial Services
AFGHAN GROWTH FINANCE LLC	AFGHANISTAN	Financial Services
AGA KHAN HOSPITAL & MEDICAL COLLEGE FUND	PAKISTAN	Services
AKBANK T.A.S.	TURKEY	Financial Services
AL TAMWEEL AL SAREE LIMITED	IRAQ	Financial Services
ALISTAIR JAMES COMPANY LIMITED	TANZANIA	Transportation
ALTO MAIPO SPA	CHILE	Energy - Power
AMAL-CAIRO AMMAN FOR FINANCING FLTG LOANS PL	WEST BANK	Financial Services
AMAL-CAIRO AMMAN FOR FINANCING FXD LOANS PLC	WEST BANK	Financial Services
AMAL-PALESTINE FOR FINANCING FIXED LOANS PLC	WEST BANK	Financial Services
AMAL-PALESTINE FOR FINANCING FLTG LOANS PLC	WEST BANK	Financial Services
AMANECER SPA	CHILE	Energy - Power
AMERICAN EMBASSY SCHOOL OF LUSAKA FOUNDATION INC	ZAMBIA	Services
AMERICAN INTERNATIONAL SCHOOL OF ABUJA	NIGERIA	Services
AMERICAN INTERNATIONAL SCHOOL OF BAMAKO	MALI	Services
AMERICAN INTERNATIONAL SCHOOL OF KINGSTON	JAMAICA	Services
AMERICAN INTERNATIONAL SCHOOL OF MONROVIA IN	LIBERIA	Services
AMERICAN INTERNATIONAL SCHOOL SYSTEMS, INC.	PAKISTAN	Services
AMERICAN UNIVERSITY IN BULGARIA	BULGARIA	Services
AMETHIS AFRICA FINANCE LIMITED	AFRICA REGIONAL	Financial Services
AMTECH SP.ZO.O	POLAND	Construction
APPLIED SOLAR TECHNOLOGIES INDIA PRIVATE LTD	INDIA	Energy - Power
ARGENTINA OLIVE RANCH	ARGENTINA	Agriculture
ARMENIA HOTEL COMPLEX - 2	ARMENIA	Tourism/Hotels
AUSTRALIS AQUACULTURE LLC	VIETNAM	Agriculture
AUTO SERVICE CAUCASUS LTD	GEORGIA	Services
AZURE POWER (GUJARAT) PVT LTD - SUNEDISON	INDIA	Energy - Power
AZURE POWER HARYANA PRIVATE LIMITED	INDIA	Energy - Power
AZURE POWER PUNJAB PRIVATE LIMITED	INDIA	Energy - Power
BAC INTERNATIONAL BANK,INC. (TRANCHE A)	PANAMA	Financial Services
BAC INTERNATIONAL BANK,INC. (TRANCHE B)	PANAMA	Financial Services
BALADI BUILDING & REAL ESTATE, LTD.	ISRAEL	Construction
BANCA DE FINANTE SI COMERT S.A.	MOLDOVA	Financial Services
BANCASH MEXICO	MEXICO	Financial Services
BANCO BAC SAN JOSE, S.A. (TRANCHE A)	COSTA RICA	Financial Services
BANCO BAC SAN JOSE, S.A. (TRANCHE B)	COSTA RICA	Financial Services
BANCO DE AMERICA CENTRAL HONDURAS, S.A.(TR A	HONDURAS	Financial Services
BANCO DE AMERICA CENTRAL HONDURAS, S.A.(TR B	HONDURAS	Financial Services
BANCO DE AMERICA CENTRAL, S.A. (TRANCHE A)	GUATEMALA	Financial Services
BANCO DE AMERICA CENTRAL, S.A. (TRANCHE A)	NICARAGUA	Financial Services
BANCO DE AMERICA CENTRAL, S.A. (TRANCHE B)	GUATEMALA	Financial Services
BANCO DE AMERICA CENTRAL, S.A. (TRANCHE B)	NICARAGUA	Financial Services
BANCO DE CREDITO CENTROAMERICANO, S.A.	NICARAGUA	Financial Services
BANCO DE CREDITO CENTROAMERICANO, S.A.	NICARAGUA	Financial Services
BANCO LAFISE HONDURAS, S.A.	HONDURAS	Financial Services
BANCO LAFISE HONDURAS, S.A.	HONDURAS	Financial Services
BANCO LAFISE S.A.	COSTA RICA	Financial Services
BANCO LAFISE, S.A. (TRANCHE 2)	COSTA RICA	Financial Services
BANCO LAFISE, S.A. (TRANCHE 3)	COSTA RICA	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
BETSY, LLC	GEORGIA	Tourism/Hotels
BILKENT ANKARA ENTEGRE SAGLIK HOSPITAL	TURKEY	Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BRAC AFRICA MICROFINANCE, LTD. (CLASS B)	TANZANIA	Financial Services
BRAC International Loan Facility ("BILF")	AFRICA REGIONAL	Financial Services
BRAVO ENERGY MEXICO SRL DE CV	MEXICO	Energy - Oil and Gas
BRAZILIAN EMERALDS, INC.	BRAZIL	Mining
BRIDGE INTERNATIONAL ACADEMIES	KENYA	Services
BROAD COVE ECOHOMES LIBERIA, INC.	LIBERIA	Construction
BURN MANUFACTURING COMPANY	AFRICA REGIONAL	Manufacturing
C21 BRASIL DESENVOLVIMENTO IMOBILAIRIO LTDA	BRAZIL	Financial Services
CAFR-AMERICAN INTERNATIONAL SCHOOL LAGOS	NIGERIA	Services
CAFR-BEL POPYRUS LIMITED	NIGERIA	Manufacturing
CAFR-MIDDLE EAST COMPLEX FOR ENGINEERING	JORDAN	Manufacturing
CAFR-MIDDLE EAST COMPLEX FOR ENGINEERING	JORDAN	Manufacturing
CAIRO AMMAN BANK	JORDAN	Financial Services
CALVERT SOCIAL INVESTMENT FOUNDATION	ALL OPIC COUNTRIES	Financial Services
CASAMAR MAURITIUS, LTD./CASAMAR INDIAN OCEAN	MAURITIUS	Manufacturing
CASIA-DIGICEL (SAMOA) LIMITED	WESTERN SAMOA	Communication
CASIA-PACIFIC BANGLADESH TELECOM LIMITED	BANGLADESH	Communication
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CCA2-GRUPO M HOLDING S.A.	COSTA RICA	Financial Services
CEL SOL S.A.P.I. DE CV	MEXICO	Manufacturing
CGLOB-ASESORIA EN TELECOMUICACIONES	GUATEMALA	Communication
CGLOB-ASTARTA-KYIV LLC	UKRAINE	Agriculture
CGLOB-BANCO DEL PAIS, S.A.	HONDURAS	Financial Services
CGLOB-CHI LIMITED	NIGERIA	Manufacturing
CGLOB-COMPANIA AZUCARERA SALVADORENA, S.A.DE	EL SALVADOR	Manufacturing
CGLOB-DIGICEL (PNG) LIMITED	PAPUA NEW GUINEA	Communication
CGLOB-PAKISTAN MOBIL COMMUNICATIONS LIMITED	PAKISTAN	Communication
CGLOB-POLTAVSKE HPP/KONONIVSKY ELEVATOR LL	UKRAINE	Agriculture
CHF LEBANON REPLACEMENT FACILITY	LEBANON	Financial Services
CHF/L-COOPERATIVE HOUSING FOUNDATION LEBANON	LEBANON	Financial Services
CHF/L-CREDIT LEBANAIS BANK	LEBANON	Financial Services
CHF/L-CREDIT LEBANAIS BANK	LEBANON	Financial Services
CHF/L-FRANSABANK S.A.L.	LEBANON	Financial Services
CHF/L-JAMAL TRUST BANK S.A.L.	LEBANON	Financial Services
CHF/L-JAMAL TRUST BANK S.A.L.	LEBANON	Financial Services
CHOUS2-BANCO ALIADO, S.A.	PANAMA	Financial Services
CHOUS2-BANCO CONTINENTAL S.A.E.C.A.	PARAGUAY	Financial Services
CHOUS2-BANCO FICOHSA	HONDURAS	Financial Services
CHOUS2-BANCO REGIONAL S.A.E.C.A.	PARAGUAY	Financial Services
CHOUS2-BANK POZITIF	TURKEY	Financial Services
CHOUS2-FIRST CITY MONUMENT BANK PLC ("FCMB")	NIGERIA	Financial Services
CHOUS2-GLOBAL BANK CORPORATION	PANAMA	Financial Services
CHOUS2-JSC BANK CENTERCREDIT	KAZAKHSTAN	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
CHOUS2-JSC HALYK SAVINGS BANK	KAZAKHSTAN	Financial Services
CHOUS-BANCO DE LA PRODUCCION S.A.	NICARAGUA	Financial Services
CHOUS-BANCO FINANCIERA COMMERCIAL HONDURENA	HONDURAS	Financial Services
CHOUS-BANCO PROMERICA	COSTA RICA	Financial Services
CHOUS-BANCO REFORMADOR, S.A.	GUATEMALA	Financial Services
CHOUS-BANRURAL S.A.	GUATEMALA	Financial Services
CHOUS-CREDIQ, SA DE CV & CREDITZ INVERSIONES	COSTA RICA	Financial Services
CHOUS-JOINT STOCK COMPANY TBC BANK	GEORGIA	Financial Services
CITADEL CAPITAL LOAN FACILITY	EGYPT	Financial Services
CLEB2A-BANK AUDI SAL-AUDI SARADAR GROUP	LEBANON	Financial Services
CLEB2A-BANKMED S.A.L.	LEBANON	Financial Services
CLEB2A-BYBLOS BANK SAL	LEBANON	Financial Services
CLEB2-BANK AUDI SAL-AUDI SARADAR GROUP	LEBANON	Financial Services
CLEB-BANKMED S.A.L.	LEBANON	Financial Services
CLEB-BANQUE LIBANO-FRANCAISE S.A.L.	LEBANON	Financial Services
CLEB-BYBLOS BANK S.A.L.	LEBANON	Financial Services
CMFI-2-ACBA CREDIT AGRICOLE BANK CJSC	ARMENIA	Financial Services
CMFI-2-BANCO FAMILIAR S.A.E.C.A.	PARAGUAY	Financial Services
CMFI-2-Banco Pichincha	ECUADOR	Financial Services
CMFI-2-BANCO PROCREDIT S.A.	ECUADOR	Financial Services
CMFI-2-BANK DANAMON INDONESIA PT TBK	INDONESIA	Financial Services
CMFI-2-FINANCIERA CREDITOS AREQUIPOS, SA	PERU	Financial Services
CMFI-2-FINANCIERA EDYFICAR, S.A.	PERU	Financial Services
CMFI-2-JORDAN MICRO CREDIT COMP(TAMWEELCOM)	JORDAN	Financial Services
CMFI-2-LOLC MICRO CREDIT LIMITED	SRI LANKA	Financial Services
CMFI-2-SEKERBANK T.A.S.	TURKEY	Financial Services
CMFI-2-VISION BANCO S.A.E.C.A.	PARAGUAY	Financial Services
CMFI-BHARTIYA SAMRUDDHI FINANCE LTD.	INDIA	Financial Services
CMFI-BHARTIYA SAMRUDDHI FINANCE LTD.	INDIA	Financial Services
CMFI-BHARTIYA SAMRUDDHI FINANCE LTD.	INDIA	Financial Services
CMFI-OPPORTUNITY MICROCREDIT ROMANIA ("OMRO")	ROMANIA	Financial Services
CMFI-SPANDANA SPHOORTY FINANCIAL LIMITED	INDIA	Financial Services
CMFI-SPANDANA SPHOORTY FINANCIAL LIMITED	INDIA	Financial Services
CMFI-SPANDANA SPHOORTY FINANCIAL LIMITED	INDIA	Financial Services
CMFI-SPANDANA SPHOORTY FINANCIAL LIMITED	INDIA	Financial Services
CMFI-SPANDANA SPHOORTY FINANCIAL LIMITED	INDIA	Financial Services
CMFI-SPANDANA SPHOORTY FINANCIAL LIMITED	INDIA	Financial Services
CONDOMINIOS RIVERSIDE ETAPA II, S.A.	COSTA RICA	Construction
CONTOURGLOBAL SOLUTIONS HOLDINGS LIMITED	ALL OPIC COUNTRIES	Energy - Power
CONTOURGLOBAL TOGO S.A.	TOGO	Energy - Power
CORPORACION QUIPORT S.A.	ECUADOR	Transportation
CPAK2-ENGRO VOPAK TERMINAL LTD	PAKISTAN	Manufacturing
CRECERA (LATIN AMERICA EXPORT FINANCE FUND)	LATIN AMERICA REGION	Financial Services
CSA-BANCO REGIONAL, S.A.	PARAGUAY	Financial Services
CSA-BBVA PARAGUAY S.A.	PARAGUAY	Financial Services
CSA-DIGICEL PANAMA S.A.	PANAMA	Communication
CSA-GRUPO JAREMAR (BUFINSA,INDASA,OLEPSA)	HONDURAS	Manufacturing
CSA-INTERBANCO S.A.	PARAGUAY	Financial Services
CSI LATINA ARRENDAMIENTO MERCANTIL S.A.P.I.	BRAZIL	Services
CSI LATINA FINANCIAL, INC./CSI LEASING MEXIC	MEXICO	Financial Services
CSI LATINA FINANCIAL, INC./CSI LEASING MEXIC	MEXICO	Financial Services
CSI LATINA FINANCIAL, INC/CSI LATINA ARRENDA	BRAZIL	Financial Services
CSI LATINA FINANCIAL,INC/CSI LEASING DE CENT	LATIN AMERICA REGION	Financial Services
CSI LEASING POLSKA SP.Z.O.O ET AL	EUROPE REGIONAL	Financial Services
CSINTELIRENT LDA	PORTUGAL	Financial Services
DATASPACE PARTNERS, LLC	RUSSIA	Financial Services
DESARROLLOS DE LOS SUENOS, S.A.	ARGENTINA	Tourism/Hotels
DEWAN ENERGY (PVT) LIMITED	PAKISTAN	Energy - Power
DIG CAPITAL LLC	HAITI	Financial Services
DIG-SOFIHDES	HAITI	Financial Services
DISI WATER PSC	JORDAN	Services
DMITROV DAIRY FARMS, CJSC	RUSSIA	Agriculture
EGYPT-AL WATANY BANK	EGYPT	Financial Services
EGYPT-COMMERCIAL INTERNATIONAL BANK	EGYPT	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
EMERGENCY LIQUIDITY FACILITY, L.P.	ALL OPIC COUNTRIES	Financial Services
EMERGING MARKETS CONSULTING (PRIVATE) LTD.	PAKISTAN	Financial Services
EPISCOPAL CHURCH OF JERUSALEM & THE MIDDLE E	ISRAEL	Construction
EQUITY CAPITAL MINING, LLC	AFGHANISTAN	Mining
ESP URJA PRIVATE LIMITED	INDIA	Energy - Power
EYE FUND 1, LLC	ALL OPIC COUNTRIES	Financial Services
FINANCIERA EDUCATIVA DE MEXICO SA DE CV	MEXICO	Financial Services
FINANCIERA TFC, S.A.	PERU	Financial Services
FINCA INTERNATIONAL	ALL OPIC COUNTRIES	Financial Services
Firefly Investments 230 (Pty) Ltd.	SOUTH AFRICA	Energy - Power
FIRST MORTGAGE COMPANY UCO LLC	ARMENIA	Financial Services
FIRST MORTGAGE COMPANY UCO, LLC	ARMENIA	Financial Services
FIXED RATE FUNDING & LIQUIDITY LTD (HWD SPA)	ALGERIA	Services
FORESTRY & AGRICULTURAL INVESTMENT MGMT USA	RWANDA	Agriculture
FRESH CHEESE COMPANY-PHILIPPINES	PHILIPPINES	Manufacturing
GAMMA KNIFE PERU	PERU	Services
GARANTI DIVERSIFIED PAYMENT RIGHTS COMPANY	TURKEY	Financial Services
GCMC II- JUNIOR NOTE TRANCHE	ALL OPIC COUNTRIES	Financial Services
GEORGIAN AMERICAN UNIVERSITY LLC	GEORGIA	Services
GHANA HOME LOANS (FUND 1) LIMITED	GHANA	Financial Services
GHANA HOME LOANS (FUND 1) LIMITED	GHANA	Financial Services
GILBERTO J.M.GONZALEZ/DBA/FERRETERIA MORALES	NICARAGUA	Services
GLOBAL COMMERCIAL MICROFINANCE CONSORTIUM II	ALL OPIC COUNTRIES	Financial Services
GLOBAL MICROFINANCE FACILITY LTD.	ALL OPIC COUNTRIES	Financial Services
GLOBAL MICROFINANCE FACILITY LTD.	ALL OPIC COUNTRIES	Financial Services
GLOBAL PARTNERSHIPS MICROFINANCE FUND2008LLC	LATIN AMERICA REGION	Financial Services
GLOBAL PARTNERSHIPS MICROFINANCE FUND2008LLC	LATIN AMERICA REGION	Financial Services
GLOBAL PARTNERSHIPS SOCIAL INV. FUND 2010LLC	LATIN AMERICA REGION	Financial Services
GLOBAL PARTNERSHIPS SOCIAL INV. FUND 2010LLC	LATIN AMERICA REGION	Financial Services
GLOBAL PARTNERSHIPS SOCIAL INVMT FUND 5.0	LATIN AMERICA REGION	Financial Services
GLOBOKAS PERU, S.A.C.	PERU	Financial Services
GMT HOTELS, LLC	GEORGIA	Tourism/Hotels
GMT MTATSMINDA, LLC	GEORGIA	Services
GN BEVERAGES	MONGOLIA	Manufacturing
GOLDEN CYPRESS WATER CO. LTD.	PHILIPPINES	Manufacturing
GOLDHAM PTY LTD.T/A KALAHARI GAS CORPORATION	BOTSWANA	Energy - Oil and Gas
GOLDHAM PTY LTD.T/A KALAHARI GAS CORPORATION	BOTSWANA	Energy - Oil and Gas
GOLDHAM PTY LTD.T/A KALAHARI GAS CORPORATION	BOTSWANA	Energy - Oil and Gas
GRAMEEN FOUNDATION FAIRTRADE FUND	ALL OPIC COUNTRIES	Financial Services
GRASSROOTS BUSINESS FUND	ALL OPIC COUNTRIES	Financial Services
GREENPARK PETROCHEMICAL COMPANY	NIGERIA	Manufacturing
GTS MAJES S.A.C. AND GTS REPARTICION S.A.C.	PERU	Energy - Power
GTS MAJES S.A.C. AND GTS REPARTICION S.A.C.	PERU	Energy - Power
HAITI 360	HAITI	Manufacturing
HEALTHPOINT SERVICES INDIA	INDIA	Services
HIGHER EDUCATION FINANCE FUND (HEFF)	LATIN AMERICA REGION	Financial Services
HUMBOLDT CURRENT (PERU)	PERU	Energy - Power
HUSK POWER SYSTEMS, INC.	INDIA	Energy - Power
IDFC	INDIA	Manufacturing
IKH TOKHOIROL LLC	MONGOLIA	Mining
IKH TOKHOIROL LLC	MONGOLIA	Mining
IKH TOKHOIROL LLC	MONGOLIA	Mining
IKH TOKHOIROL LLC	MONGOLIA	Mining
IKH TOKHOIROL LLC	MONGOLIA	Mining
INDUSTRIAL DPR FUNDING LTD.	GUATEMALA	Financial Services
INNOVIDA HOLDINGS LLC	HAITI	Manufacturing
INSTITUTO CULINARIO SANTA LUCIA,S.A.	NICARAGUA	Services
INTER-MAC INTERNATIONAL, INC.	HONDURAS	Financial Services
INTERNATIONAL COMMUNITY SCHOOL LIMITED	GHANA	Services
INTERNATIONAL COMMUNITY SCHOOL LIMITED	GHANA	Services
International School of Kenya Limited	KENYA	Services
INTL CO FOR ENERGY TECHNOLOGY INDUSTRIES	JORDAN	Construction
INTL CO FOR ENERGY TECHNOLOGY INDUSTRIES	JORDAN	Construction
IRAQ MIDDLE MARKET DEVELOPMENT FOUNDATION	IRAQ	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
IRAQ MIDDLE MARKET DEVELOPMENT FOUNDATION	IRAQ	Financial Services
IRAQ MIDDLE MARKET DEVELOPMENT FOUNDATION	IRAQ	Financial Services
ITAU UNIBANCO	BRAZIL	Financial Services
JOPA VILLAS, LLC	KENYA	Construction
JORDAN-ARAB BANK	JORDAN	Financial Services
JORDAN-BANK AL ETIHAD	JORDAN	Financial Services
JORDAN-CAIRO AMMAN BANK	JORDAN	Financial Services
JORDAN-CAPITAL BANK OF JORDAN	JORDAN	Financial Services
JORDAN-HOUSING BANK FOR TRADE AND FINANCE	JORDAN	Financial Services
JORDAN-JORDAN AHLI BANK	JORDAN	Financial Services
JORDAN-JORDAN KUWAIT BANK	JORDAN	Financial Services
JOSHI TECHNOLOGIES INTERNATIONAL INC	COLOMBIA	Energy - Oil and Gas
JOSHI TECHNOLOGIES INTERNATIONAL INC. III	COLOMBIA	Energy - Oil and Gas
JOSHI TECHNOLOGIES INTERNATIONAL, INC.	COLOMBIA	Energy - Oil and Gas
JSC BANK OF GEORGIA	GEORGIA	Financial Services
JSC BANK OF GEORGIA	GEORGIA	Financial Services
JSC PROCREDIT BANK GEORGIA	GEORGIA	Financial Services
JSC PROCREDIT BANK GEORGIA	GEORGIA	Financial Services
JSC WENGEORGIA	GEORGIA	Services
JUBA HOTEL	SOUTH SUDAN	Tourism/Hotels
KABUL GRAND RESIDENCES LLC	AFGHANISTAN	Construction
KMRI TANZANIA LTD.	TANZANIA	Energy - Power
KORET ISRAEL ECONOMIC DEVELOPMENT FUNDS	ISRAEL	Financial Services
LA FUTURA, S.A.	GUATEMALA	Agriculture
LA HIPOTECARIA EL SALVADORIAN MORTGAGE TRST	EL SALVADOR	Financial Services
LA HIPOTECARIA PANAMANIAN MORTGAGE TRUST 10	PANAMA	Financial Services
LAFISE GROUP PANAMA, INC.	PANAMA	Financial Services
LAGRAY CHEMICAL COMPANY LTD	GHANA	Manufacturing
LEAWOOD INVESTMENTS INC/BARRIEFIELD LLC	COLOMBIA	Agriculture
LIBERIAN ENTERPRISE DEVELOPMENT FINANCE CO.	LIBERIA	Financial Services
LLC "WINNER IMPORTS UKRAINE, LTD"	UKRAINE	Services
MAJESTIC GROUP KOREA, LTD.	KOREA (SOUTH)	Services
MEDICAL CREDIT FUND	AFRICA REGIONAL	Financial Services
MEII-2- CAIRO AMMAN BANK (SME INCREASE)	WEST BANK	Financial Services
MEII-2-ARAB BANK	WEST BANK	Financial Services
MEII-2-Bank of Jordan	WEST BANK	Financial Services
MEII-2-BANK OF PALESTINE (SME INCREASE)	WEST BANK	Financial Services
MEII-2-CAIRO AMMAN BANK - MICROFINANCE	WEST BANK	Financial Services
MEII-2-HOUSING BANK FOR TRADE AND FINANCE	WEST BANK	Financial Services
MEII-2-Housing Bank for Trade and Finance -	WEST BANK	Financial Services
MEII-2-JORDAN AHLI BANK (SME)	WEST BANK	Financial Services
MEII-2-PALESTINE COMMERCIAL BANK	WEST BANK	Financial Services
MEII-2-QUDS BANK (SME)	WEST BANK	Financial Services
MEII-AL-QUDS BANK FOR DEVELOPMENT & INVEST	WEST BANK	Financial Services
MEII-BANK OF JORDAN	WEST BANK	Financial Services
MEII-BANK OF PALESTINE	WEST BANK	Financial Services
MEII-BANK OF PALESTINE	WEST BANK	Financial Services
MEII-BANK OF PALESTINE (MOVENPICK)	WEST BANK	Tourism/Hotels
MEII-CAIRO AMMAN BANK	WEST BANK	Financial Services
MEII-CAIRO AMMAN BANK - FATEN MICROFINANCE	WEST BANK	Financial Services
MEII-CAIRO AMMAN BANK (MOVENPICK)	WEST BANK	Tourism/Hotels
MEII-HOUSING BANK FOR TRADE AND FINANCE	WEST BANK	Financial Services
MEII-JORDAN AHLI BANK	WEST BANK	Financial Services
MEII-PALESTINE COMMERCIAL BANK	WEST BANK	Financial Services
MELOWIND	URUGUAY	Energy - Power
MFX SOLUTIONS, INC.	ALL OPIC COUNTRIES	Financial Services
MIBANCO-IFC SYNDICATION	PERU	Financial Services
MICROBUILD I, LLC	ALL OPIC COUNTRIES	Financial Services
MICROCREDIT ENTERPRISES	ALL OPIC COUNTRIES	Financial Services
MICROFINANCE GROWTH FUND, LLC	LATIN AMERICA REGION	Financial Services
MICROVEST I, LP	ALL OPIC COUNTRIES	Financial Services
MIDDLE EAST INVESTMENT INITIATIVE, INC.	GAZA	Financial Services
MIDDLE EAST INVESTMENT INITIATIVE, INC.	GAZA	Financial Services
MINLAM MICROFINANCE FUND 2	ALL OPIC COUNTRIES	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
MTANGA FARMS LIMITED	TANZANIA	Manufacturing
NAMGEM TRADING BVI LIMITED	NAMIBIA	Manufacturing
NATURA BEVERAGE LLC	CAMEROON	Manufacturing
NATURA BEVERAGE, LLC	CAMEROON	Manufacturing
NCB2-TURK EKONOMI BANKASI A.S. PURPOSE B	TURKEY	Financial Services
NCB3-BANCO PINE S.A.	BRAZIL	Financial Services
NCB3-BANK CENTER CREDIT JSC	KAZAKHSTAN	Financial Services
NCB3-LOCKO BANK	RUSSIA	Financial Services
NCB3-TRANSCAPITAL BANK JSC	RUSSIA	Financial Services
NEW YORK PIZZA CO. LTD.	RUSSIA	Services
NEXTGEN SOLAWAZI LIMITED	TANZANIA	Energy - Power
NU STRATA LOGISTICS	LIBERIA	Services
NUMOTECH, INC.	RUSSIA	Manufacturing
O&S CONSULTING, L.L.C.	UZBEKISTAN	Construction
ORPOWER 4 GEOTHERMAL	KENYA	Energy - Power
PACIFIC COLLECTION COMPANY/TRIBAL LOOM	AFGHANISTAN	Manufacturing
PALESTINIAN POLITICAL RISK INSURANCE PROJECT	WEST BANK	Financial Services
PANNONIA ETHANOL ZTR	HUNGARY	Manufacturing
Paradigm Working Capital Facility	ALL OPIC COUNTRIES	Financial Services
PARKO SERVICES S.A.	COLOMBIA	Energy - Oil and Gas
PARKO SERVICES S.A.	COLOMBIA	Energy - Oil and Gas
PARKO SERVICES, S.A.	COLOMBIA	Energy - Oil and Gas
PARTNERS FOR SUSTAINABLE DEV'MENT -NETKETABI	WEST BANK	Financial Services
PATRIA CREDIT INSTITUTIE FINANCIARA NEBAN SA	ROMANIA	Financial Services
PJ DEVELOPMENT LLC	RUSSIA	Services
PJ WESTERN RETAIL INVESTMENTS LTD II	RUSSIA	Services
PLAZA LOGISTICA S.R.L.	ARGENTINA	Construction
PLAZA LOGISTICA S.R.L. II	ARGENTINA	Construction
PREFABRICADOS Y MODULARES DE MONTERREY(PYMM)	MEXICO	Construction
PROCREDIT HOLDING A.G.	ALL OPIC COUNTRIES	Financial Services
PROCREDIT HOLDING A.G.	ALL OPIC COUNTRIES	Financial Services
PROMOTORA DE INFRAESTRUCTURA REGISTRAL, S.A.	MEXICO	Financial Services
PT BANK ANDARA	INDONESIA	Financial Services
PT. TUCAN PUMPCO SERVICES INDONESIA	INDONESIA	Energy - Oil and Gas
PT. TUCAN PUMPCO SERVICES INDONESIA	INDONESIA	Energy - Oil and Gas
PTSM HOLDINGS LIMITED/PTS EQUIPMENT LIMITED	NIGERIA	Services
PV Salvador	CHILE	Energy - Power
QUANTUMID TECHNOLOGIES (INDIA) PVT. LTD.	INDIA	Services
QWO JOINT STOCK COMPANY	AFGHANISTAN	Manufacturing
QWO JOINT STOCK COMPANY	AFGHANISTAN	Manufacturing
REFORMA BLN-BACKED I	MEXICO	Financial Services
RLJ LIBERIA, LLC	LIBERIA	Construction
RMA FINANCIAL SERVICES (CAMBODIA) PLC	CAMBODIA	Services
ROOT CAPITAL II	ALL OPIC COUNTRIES	Financial Services
ROOT CAPITAL INC.	ALL OPIC COUNTRIES	Financial Services
RPK-VYSOTSK "LUKOIL-II"	RUSSIA	Energy - Oil and Gas
SAFI APPAREL CORPORATION	AFGHANISTAN	Manufacturing
SAFI APPAREL CORPORATON	AFGHANISTAN	Manufacturing
SALVATIERRA DESARROLLOS URBANOS, S.A. DE C.V	MEXICO	Financial Services
SAN ANDRES SPA	CHILE	Energy - Power
SANTE GMT PRODUCTS LLC	GEORGIA	Manufacturing
SANTE GMT PRODUCTS, LLC	GEORGIA	Manufacturing
SAPPHIRE WIND POWER COMPANY LIMITED	PAKISTAN	Energy - Power
SCHULTZE MONGOLIA DEBT FACILITY LIMITED	MONGOLIA	Financial Services
SEAF SME DEBT FACILITY LLC (MATRAS SA)	POLAND	Services
SEAF SME DEBT FACILITY LLC (SUNSHINE EXPORT)	PERU	Agriculture
SEAF-FBT AD (JIMMY'S)	BULGARIA	Services
SEKER MORTGAGE FINANSMAN A.S.	TURKEY	Financial Services
SHARED INTEREST, INC.	SOUTH AFRICA	Financial Services
SLID INDUSTRIES, LTD.	GHANA	Manufacturing
SME FINANCE COMPANY	AFRICA REGIONAL	Financial Services
SOCIEDAD CONCESIONARIA VESPUCCIO NORTE EXPRES	CHILE	Construction
SOM OTELCILIK VE TURIZM TICARET A.S.	TURKEY	Tourism/Hotels
SOM OTELCILIK VE TURIZM TICARET A.S.	TURKEY	Tourism/Hotels

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
SOUTH AFRICA FINANCING ENTERPRISE	SOUTH AFRICA	Construction
SSJD BIOENERGY	PAKISTAN	Services
ST. MARCHE SUPERMERCADOS (BRAZIL)	BRAZIL	Services
SUMMIT ASSOCIATES, LTD.	AFGHANISTAN	Services
SUMMIT ASSOCIATES, LTD.	AFGHANISTAN	Manufacturing
SUMMIT ASSOCIATES, LTD.	AFGHANISTAN	Services
SUMMIT HOTELS LIMITED/SUMMIT GLOBAL GROUP	IRAQ	Tourism/Hotels
SUNEDISON THAILAND	THAILAND	Energy - Power
SUSTAINABLE ENERGY SERVICES AFGHANISTAN	AFGHANISTAN	Energy - Power
SWEETWATER PAKISTAN (PRIVATE) LIMITED	PAKISTAN	Manufacturing
TACNA SOLAR S.A.C. AND PANAMERICANA SOLAR	PERU	Energy - Power
TANRUSS INVESTMENT LTD	TANZANIA	Tourism/Hotels
TAYL INVESTORS GROUP LIMITED	AFGHANISTAN	Tourism/Hotels
TAYL INVESTORS GROUP-2	AFGHANISTAN	Tourism/Hotels
TB-AIR DRILLING ASSOCIATES	ALL OPIC COUNTRIES	Energy - Oil and Gas
TB-ANDREWS Y WILLIAMSON	MEXICO	Agriculture
TBC KREDIT NON-BANKING CREDIT ORGANIZATI LLC	AZERBAIJAN	Financial Services
TBC KREDIT NON-BANKING CREDIT ORGANIZATI LLC	AZERBAIJAN	Financial Services
TB-JBR, INC (II)	LATIN AMERICA REGION	Agriculture
TB-WISENBAKER	BRAZIL	Manufacturing
TELIANI VALLEY JSC	GEORGIA	Manufacturing
THANEAKEA PHUM CAMBODIA	CAMBODIA	Financial Services
Thaneakea Phum Cambodia (2nd Tranche)	CAMBODIA	Financial Services
THE ATLANTIC	IRAQ	Construction
THE COOPERATIVE HOUSING FOUNDATION	ROMANIA	Financial Services
THE COOPERATIVE HOUSING FOUNDATION LEBANON	LEBANON	Financial Services
TIVANNAH GLOBAL, LIMITADA	ANGOLA	Manufacturing
TPL PROPERTIES (PVT) LIMITED	PAKISTAN	Construction
TPL TRAKKER	PAKISTAN	Services
TREETOPS CAPITAL AGRIBUSINESS FACILITY	ROMANIA	Financial Services
TURKIYE GARANTI BANKASI A.S.	TURKEY	Financial Services
UMBRALCAPITAL, S.A.P.I. DE C.V.	MEXICO	Financial Services
UNION GLOBAL PARTNERS LIMITED	NIGERIA	Financial Services
UNIVERSITY OF GEORGIA	GEORGIA	Services
VEHICULOS LIQUIDOS FINANCIEROS SAPI DE C.V.	MEXICO	Financial Services
VERIDA CREDIT IFN S.A.	ROMANIA	Financial Services
VERIDA CREDIT IFN S.A. II	ROMANIA	Financial Services
VITAS INSTITUTIE FINANCIARA NEBANCARA S. A.	ROMANIA	Financial Services
W3-BANCO FINANCIERA COMERCIAL HONDURENA, S.A	HONDURAS	Financial Services
W3-BANCO INDUSTRIAL E COMERCIAL S.A.	BRAZIL	Financial Services
W3-BANCO PINE, S.A.	BRAZIL	Financial Services
W3-BANCO REFORMADOR, S.A.	GUATEMALA	Financial Services
W3-BANCO SAFRA S.A.	BRAZIL	Financial Services
W3-CREDICORP BANK	PANAMA	Financial Services
W3-MULTIBANK, INC.	PANAMA	Financial Services
W3-TURKIYE GARANTI BANKASI AS	TURKEY	Financial Services
W3-YES BANK LIMITED	INDIA	Financial Services
W4-PT BANK DANAMON INDONESIA TBK	INDONESIA	Financial Services
WANACHI GROUP HOLDINGS LTD	AFRICA REGIONAL	Communication
WBC - Grama Vidiyal Microfinance	INDIA	Financial Services
WBC - GRAMA VIDYAL MICROFINANCE (SUBDEBT)	INDIA	Financial Services
WBC Arrendadora y Comercializadora Lingo SA	MEXICO	Financial Services
WBC -OPERADORA DE SERVICIOS MEGA, S.A. DE C.	MEXICO	Financial Services
WBC-AFRICAN BANKING CORPORATION TANZANIA LTD	TANZANIA	Financial Services
WBC-AIR WORKS INDIA	INDIA	Transportation
WBC-ANALISTAS DE RECURSOS GLOBALES SAPI	MEXICO	Financial Services
WBC-ARDSHININVESTBANK C.JSC	ARMENIA	Financial Services
WBC-ATLANTIC GROUP LIMITED	UKRAINE	Services
WBC-ATLANTIC GROUP LIMITED ("AGL")	UKRAINE	Services
WBC-BANCO CATHAY DE COSTA RICA S.A.	COSTA RICA	Financial Services
WBC-BANCO IMPROSA S.A.	COSTA RICA	Financial Services
WBC-BANCO REGIONAL DO KEVE S.A.	ANGOLA	Financial Services
WBC-BANK OF GEORGIA	GEORGIA	Financial Services
WBC-BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
WBC-COMERCIAL LAEISZ, S.A. DE C.V.	HONDURAS	Services
WBC-Credit Moscow Bank	RUSSIA	Financial Services
WBC-CREDIT-MOSCOW BANK JOINT STOCK COMPANY	RUSSIA	Financial Services
WBC-DEGRESS HOLDINGS LIMITED	UKRAINE	Services
WBC-DELTA PLASTIK ENDUSTRISI A.S.	TURKEY	Manufacturing
WBC-DELTA PLASTIK ENDUSTRISI A.S.	TURKEY	Manufacturing
WBC-DELTA PLASTIK ENDUSTRISI A.S.	TURKEY	Manufacturing
WBC-DOCUFORMAS S.A.P.I. DE C.V.	MEXICO	Financial Services
WBC-FINANCIERA DESYFIN S.A.	COSTA RICA	Financial Services
WBC-GEORGIAN LEASING COMPANY	GEORGIA	Financial Services
WBC-GEORGIAN LEASING COMPANY, LLC	GEORGIA	Financial Services
WBC-ICS PRIME CAPITAL SRL	MOLDOVA	Financial Services
WBC-IM OMF MICROINVEST S.R.L.	MOLDOVA	Financial Services
WBC-INDEPENDENT LEASING, LLC	RUSSIA	Financial Services
WBC-INTERFARMA TIBBI MALZEMELER SANAYI VE TI	TURKEY	Manufacturing
WBC-JSC BASISBANK	GEORGIA	Financial Services
WBC-JSC BASISBANK	GEORGIA	Financial Services
WBC-JSC BASISBANK II	GEORGIA	Financial Services
WBC-JSC POLIGRAF LAND	RUSSIA	Manufacturing
WBC-KELLEY GRAINS CORPORATION S.R.L.	MOLDOVA	Manufacturing
WBC-MUGANBANK OJSC	AZERBAIJAN	Financial Services
WBC-MUGANBANK OJSC	AZERBAIJAN	Financial Services
WBC-NBD BANK JOINT STOCK COMPANY	RUSSIA	Financial Services
WBC-NBD BANK JOINT STOCK COMPANY	RUSSIA	Financial Services
WBC-NUEVOS ALMACENES S.A. D/B/A/ CEMACO	GUATEMALA	Services
WBC-OJSC COMMERCIAL BANK "SDM-BANK"	RUSSIA	Financial Services
WBC-OJSC SDM-BANK (II)	RUSSIA	Financial Services
WBC-PETERSBURG SOCIAL COMMERCIAL BANK OJSC	RUSSIA	Financial Services
WBC-PREFERRED BRANDS INTERNATIONAL (III)	INDIA	Manufacturing
WBC-PREFERRED BRANDS INTERNATIONAL, LLC	INDIA	Manufacturing
WBC-PREFERRED BRANDS INTERNATIONAL, LLC	INDIA	Manufacturing
WBC-PROMYSHLENNO-STROITELNY INVESTSIONNY	ARMENIA	Financial Services
WBC-PUBLIC JOINT STOCK COMPANY MEGABANK	UKRAINE	Financial Services
WBC-RABITABANK OJSC	AZERBAIJAN	Financial Services
WBC-RABITABANK OJSC	AZERBAIJAN	Financial Services
WBC-SOUTHERN VALLEY FRUIT & VEGETABLE, INC.	MEXICO	Agriculture
WBC-SPENCON INTERNATIONAL LIMITED	AFRICA REGIONAL	Construction
WBC-TURANBANK OJSC	AZERBAIJAN	Financial Services
WBC-VALLARTA VISION Y MISION A.C.	MEXICO	Services
WBC-ZAO AIRES	RUSSIA	Services
WBC-ZAO AIRES	RUSSIA	Services
ZAO COMMERCIAL BANK DELTACREDIT	RUSSIA	Financial Services
ZAO EUROPLAN	RUSSIA	Financial Services
ZAO NUMOTECH-SPEKTR	RUSSIA	Manufacturing
ZAO STAR NETWORKS	RUSSIA	Communication
ZBE PARTNERS EAD	BULGARIA	Energy - Power

PROJECT NAME	COUNTRY NAME	SECTOR
FUNDS		
AAF SUB-FUND	AFRICA REGIONAL	Financial Services
ACF INVESTMENTS B, LTD.	LATIN AMERICA REGION	Financial Services
ACF INVESTMENTS C, LTD.	LATIN AMERICA REGION	Financial Services
ACF INVESTMENTS, LTD.	LATIN AMERICA REGION	Financial Services
ACF INVESTORS, LTD.	LATIN AMERICA REGION	Financial Services
AFRICA TELECOM, MEDIA & TECHNOLOGY FUND LLC	AFRICA REGIONAL	Financial Services
ALSI LATIN AMERICA FUND, L.P.	LATIN AMERICA REGION	Financial Services
ALSI MEXICO OPPORTUNITIES FUND	MEXICO	Financial Services
ASIA DEVELOPMENT PARTNERS III, LP	INDIA	Financial Services
CAPITAL ALLIANCE PROPERTY INVESTMENT CO., LP	NIGERIA	Financial Services
CLEARWATER CAPITAL PARTNERS IV, L.P.	ASIA REGIONAL	Financial Services
DARBY-PROBANCO HOLDINGS, L.P.	LATIN AMERICA REGION	Financial Services
ECP AFRICA FIII INVESTMENTS LLC	AFRICA REGIONAL	Financial Services
ECP AFRICA FIII INVESTMENTS LLC	AFRICA REGIONAL	Financial Services
ECP AFRICA FUND II INVESTMENTS LLC	AFRICA REGIONAL	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
FUNDS		
ECP MENA GROWTH FII LLC	MIDDLE EAST REGIONAL	Financial Services
ETHOS PRIVATE EQUITY FUND V	AFRICA REGIONAL	Financial Services
FCP FUND	JORDAN	Financial Services
FONDO ALSIS MEXICO DE VIVIENDA DE INTERES SO	LATIN AMERICA REGION	Financial Services
HELIOS INVESTORS II AFRICA, LTD.	AFRICA REGIONAL	Financial Services
HELIOS SUB-SAHARAN AFRICA FUND I, L.P.	AFRICA REGIONAL	Financial Services
INFRACO SUB-SAHARA INFRASTRUCTURE FUND	AFRICA REGIONAL	Financial Services
LATIN IDEA MEXICO VENTURE CAPITAL FUND III	MEXICO	Financial Services
LATIN POWER III INVESTMENTS, L.P.	LATIN AMERICA REGION	Financial Services
MAGHREB PRIVATE EQUITY III, LLC	AFRICA REGIONAL	Financial Services
Paladin Latin America Investors IV LP	LATIN AMERICA REGION	Financial Services
PALADIN REALTY LATIN AMERICA INVESTORS II,LP	LATIN AMERICA REGION	Financial Services
PALADIN REALTY LATIN AMERICA INVESTORS III	LATIN AMERICA REGION	Financial Services
Paladin Realty Latin America Investors IV, L	LATIN AMERICA REGION	Financial Services
RUSSIA PARTNERS II "O" SERIES, L.P.	NIS REGIONAL	Financial Services
SACEF HOLDINGS	ASIA REGIONAL	Financial Services
SARONA FRONTIER MARKETS FUND II LP	ALL OPIC COUNTRIES	Financial Services
SAWHF PVE (SA)	SOUTH AFRICA	Financial Services
SIGMABLEYZER SOUTHEAST EUROPEAN FUND IV	UKRAINE	Financial Services
SIRAJ PALESTINE FUND I	WEST BANK	Financial Services
SOUTHEAST EUROPE EQUITY FUND II, L.P.	EUROPE REGIONAL	Financial Services
THE GREAT CIRCLE FUND L.P. (MISF)	ALL OPIC COUNTRIES	Financial Services
VIRGIN GREEN FUND GLOBAL I, L.P.	ALL OPIC COUNTRIES	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
INSURANCE		
A B I GROUP LTD	AFGHANISTAN	Manufacturing
A B I GROUP LTD	AFGHANISTAN	Manufacturing
A R C CONSTRUCTION CO L L C	AFGHANISTAN	Construction
ABI Group	AFGHANISTAN	Manufacturing
ASIA FOUNDATION	AFGHANISTAN	Services
ASIA FOUNDATION	AFGHANISTAN	Services
CHEMONICS INTERNATIONAL INC	AFGHANISTAN	Services
DEVELOPMENT ALTERNATIVES INC. (DAI)	AFGHANISTAN	Services
INTERNATIONAL HOME FINANCE & DEVELOPMENT, LLC (IHFD)	AFGHANISTAN	Services
INTERNATIONAL RESCUE COMMITTEE	AFGHANISTAN	Services
SAFI APPAREL CORP	AFGHANISTAN	Manufacturing
CHEMONICS INTERNATIONAL INC	ALBANIA	Services
CHEMONICS INTERNATIONAL INC	ANGOLA	Services
SEABOARD OVERSEAS LTD	ANGOLA	Manufacturing
CHEMONICS INTERNATIONAL INC	ANTIGUA/BARBUDA	Services
MARTINEZ, PHILIP C	ARGENTINA	Agriculture
CHEMONICS INTERNATIONAL INC	ARMENIA	Services
MICROVEST SHORT-DURATION FUND LP	ARMENIA	Financial Services
B T C PIPELINE PROJECT TWO THOUSAND THREE TRUST	AZERBAIJAN	Energy - Oil and Gas
CHEMONICS INTERNATIONAL INC	AZERBAIJAN	Services
DEVELOPMENT ALTERNATIVES INC. (DAI)	AZERBAIJAN	Services
MICROVEST + PLUS LP	AZERBAIJAN	Financial Services
MICROVEST + PLUS LP	AZERBAIJAN	Financial Services
MICROVEST SHORT-DURATION FUND LP	AZERBAIJAN	Financial Services
MICROVEST SHORT-DURATION FUND LP	AZERBAIJAN	Financial Services
ASIA FOUNDATION	BANGLADESH	Services
ASIA FOUNDATION	BANGLADESH	Services
CHEMONICS INTERNATIONAL INC	BANGLADESH	Services
DEVELOPMENT ALTERNATIVES INC. (DAI)	BANGLADESH	Services
STEADFAST INSURANCE CO	BENIN	Energy - Oil and Gas
CHEMONICS INTERNATIONAL INC	BOLIVIA	Services
COEUR D ALENE MINES CORP	BOLIVIA	Mining
DELPHOS INTERNATIONAL LTD	BOLIVIA	Communication
CHEMONICS INTERNATIONAL INC	BOSNIA-HERZEGOVINA	Services
CHEMONICS INTERNATIONAL INC	BOTSWANA	Services
ASSURANT INC	BRAZIL	Financial Services
BANK OF NEW YORK	BRAZIL	Communication
NATIONAL CITY BANK	BRAZIL	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
INSURANCE		
CHEMONICS INTERNATIONAL INC	BURUNDI	Services
INTERNATIONAL RESCUE COMMITTEE	BURUNDI	Services
ASIA FOUNDATION	CAMBODIA	Services
ASIA FOUNDATION	CAMBODIA	Services
TERRA GLOBAL CAPITAL, LLC	CAMBODIA	Services
ACCESS AFRICA FUND LLC	CAMEROON	Financial Services
INTERNATIONAL RESCUE COMMITTEE	CENTRAL AFRICAN REPUBLIC	Services
INTERNATIONAL RESCUE COMMITTEE	CHAD	Services
MICROVEST SHORT-DURATION FUND LP	COLOMBIA	Financial Services
SEABOARD OVERSEAS LTD	CONGO	Manufacturing
SEABOARD OVERSEAS LTD	CONGO	Manufacturing
CHEMONICS INTERNATIONAL INC	CONGO, DEM. REPUBLIC OF	Services
INTERNATIONAL RESCUE COMMITTEE	CONGO, DEM. REPUBLIC OF	Services
SEABOARD OVERSEAS LTD	CONGO, DEM. REPUBLIC OF	Manufacturing
SEABOARD OVERSEAS LTD	CONGO, DEM. REPUBLIC OF	Manufacturing
SEABOARD OVERSEAS LTD	CONGO, DEM. REPUBLIC OF	Manufacturing
INTERNATIONAL RESCUE COMMITTEE	COTE DIVOIRE	Services
ADRIATIC INVESTMENT MANAGEMENT L L C	CROATIA	Financial Services
CHEMONICS INTERNATIONAL INC	DJIBOUTI	Services
CHEMONICS INTERNATIONAL INC	DOMINICA	Services
CHEMONICS INTERNATIONAL INC	DOMINICAN REPUBLIC	Services
ASIA FOUNDATION	EAST TIMOR	Services
ASIA FOUNDATION	EAST TIMOR	Services
AMERICAN HOME ASSURANCE CO	ECUADOR	Transportation
AMERICAN HOME ASSURANCE CO	ECUADOR	Transportation
CHEMONICS INTERNATIONAL INC	ECUADOR	Services
MICROVEST SHORT-DURATION FUND LP	ECUADOR	Financial Services
APACHE CORP	EGYPT	Energy - Oil and Gas
APACHE CORP	EGYPT	Energy - Oil and Gas
CHEMONICS INTERNATIONAL INC	EGYPT	Services
CITIBANK NA	EGYPT	Financial Services
CHEMONICS INTERNATIONAL INC	EL SALVADOR	Services
CHEMONICS INTERNATIONAL INC	ETHIOPIA	Services
INTERNATIONAL RESCUE COMMITTEE	ETHIOPIA	Services
CHEMONICS INTERNATIONAL INC	GEORGIA	Services
INTERNATIONAL RESCUE COMMITTEE	GEORGIA	Services
MICROVEST + PLUS LP	GEORGIA	Financial Services
MICROVEST + PLUS LP	GEORGIA	Financial Services
MICROVEST SHORT-DURATION FUND LP	GEORGIA	Financial Services
MICROVEST SHORT-DURATION FUND LP	GEORGIA	Financial Services
ACCESS AFRICA FUND LLC	GHANA	Financial Services
ACCESS AFRICA FUND LLC	GHANA	Financial Services
ACCESS AFRICA FUND LLC	GHANA	Financial Services
BELSTAR CAPITAL LIMITED	GHANA	Services
BELSTAR CAPITAL LIMITED	GHANA	Construction
BELSTAR DEVELOPMENT L L C	GHANA	Services
BELSTAR DEVELOPMENT L L C	GHANA	Services
CHEMONICS INTERNATIONAL INC	GHANA	Services
G H L U S A INVESTMENT PARTNERS	GHANA	Financial Services
STEADFAST INSURANCE CO	GHANA	Energy - Oil and Gas
THREE E KUMASI INVESTMENT CO L L C	GHANA	Services
W R B ENTERPRISES INC	GRENADA	Energy - Power
CHEMONICS INTERNATIONAL INC	HAITI	Services
CONTINENTAL GRAIN CO	HAITI	Manufacturing
INTERNATIONAL RESCUE COMMITTEE	HAITI	Services
SEABOARD CORP	HAITI	Manufacturing
MEMC ELECTRONICS MATERIALS, INC.	INDIA	Energy - Power
MEMC ELECTRONICS MATERIALS, INC.	INDIA	Manufacturing
Southern Energy Partners	INDIA	Energy - Power
SOUTHERN ENERGY PARTNERS LLC	INDIA	Energy - Power
SOUTHERN ENERGY PARTNERS LLC	INDIA	Energy - Power
SOUTHERN ENERGY PARTNERS LLC	INDIA	Energy - Power
ASIA FOUNDATION	INDONESIA	Services
ASIA FOUNDATION	INDONESIA	Services

PROJECT NAME	COUNTRY NAME	SECTOR
INSURANCE		
CHEMONICS INTERNATIONAL INC	INDONESIA	Services
TUCAN PETROLEUM INDONESIA L L C	INDONESIA	Energy - Oil and Gas
ELLCOTT DREDGES L L C	IRAQ	Construction
ELLCOTT DREDGES L L C	IRAQ	Construction
INTERNATIONAL RESCUE COMMITTEE	IRAQ	Services
LINDSAY INTERNATIONAL SALES & SERVICE LLC	IRAQ	Services
LINDSAY INTERNATIONAL SALES & SERVICE LLC	IRAQ	Services
AES CORPORATION	JORDAN	Manufacturing
CHEMONICS INTERNATIONAL INC	JORDAN	Services
CITIBANK NA	JORDAN	Financial Services
GENERAL ELECTRIC CAPITAL CORPORATION	JORDAN	Services
INTERNATIONAL RESCUE COMMITTEE	JORDAN	Services
CHEMONICS INTERNATIONAL INC	KAZAKHSTAN	Services
MICROVEST + PLUS LP	KAZAKHSTAN	Financial Services
MICROVEST SHORT DURATION FUND LP	KAZAKHSTAN	Financial Services
CHEMONICS INTERNATIONAL INC	KENYA	Services
INTERNATIONAL RESCUE COMMITTEE	KENYA	Services
WESTROCK COFFEE HOLDINGS LLC	KENYA	Agriculture
ASIA FOUNDATION	KOREA (SOUTH)	Services
ASIA FOUNDATION	KOREA (SOUTH)	Services
GENWORTH MORTGAGE INSURANCE CORP	KOREA (SOUTH)	Financial Services
CHEMONICS INTERNATIONAL INC	KOSOVO	Services
CHEMONICS INTERNATIONAL INC	KYRGYZ REPUBLIC	Services
AMERICAN UNIVERSITY OF BEIRUT	LEBANON	Services
CHEMONICS INTERNATIONAL INC	LEBANON	Services
INTERNATIONAL COLLEGE	LEBANON	Services
LEBANESE AMERICAN UNIVERSITY	LEBANON	Services
NATIONAL CITY BANK	LEBANON	Financial Services
SEABOARD OVERSEAS LIMITED	LESOTHO	Manufacturing
BROAD COVE ECOHOMES LIBERIA, INC	LIBERIA	Construction
INTERNATIONAL RESCUE COMMITTEE	LIBERIA	Services
Kwapla Intl Trading Co.	LIBERIA	Services
KWAPLAH INTERNATIONAL TRADING CO INC	LIBERIA	Services
R L J COMPANIES	LIBERIA	Tourism/Hotels
SEABOARD CORP	MADAGASCAR	Manufacturing
CHEMONICS INTERNATIONAL INC	MALAWI	Services
American International School of Bamako	MALI	Services
AMERICAN INTERNATIONAL SCHOOL OF BAMAKO FOUNDATION	MALI	Services
WADE RAIN INC	MEXICO	Services
CHEMONICS INTERNATIONAL INC	MOLDOVA	Services
DEVELOPMENT ALTERNATIVES INC. (DAI)	MOLDOVA	Services
ASIA FOUNDATION	MONGOLIA	Services
ASIA FOUNDATION	MONGOLIA	Services
CHEMONICS INTERNATIONAL INC	MONGOLIA	Services
CHEMONICS INTERNATIONAL INC	MOROCCO	Services
CHEMONICS INTERNATIONAL INC	MOZAMBIQUE	Services
ASIA FOUNDATION	NEPAL	Services
ASIA FOUNDATION	NEPAL	Services
CHEMONICS INTERNATIONAL INC	NEPAL	Services
CHEMONICS INTERNATIONAL INC	NICARAGUA	Services
MICROVEST SHORT-DURATION FUND LP	NICARAGUA	Financial Services
ZAMORA, ROBERTO	NICARAGUA	Financial Services
CHEMONICS INTERNATIONAL INC	NIGER	Services
A E S NIGERIA HOLDINGS LTD	NIGERIA	Energy - Power
AMERICAN INTERNATIONAL SCHOOL OF ABUJA FOUNDATION	NIGERIA	Services
American Int'l School of Abuja	NIGERIA	Services
CG SOLUTIONS GLOBAL HOLDING CO	NIGERIA	Energy - Power
CG SOLUTIONS GLOBAL HOLDING CO	NIGERIA	Energy - Power
CG Solutions Global Holding Co	NIGERIA	Energy - Power
CG SOLUTIONS GLOBAL HOLDING CO	NIGERIA	Energy - Power
CG Solutions Global Holding Co	NIGERIA	Energy - Power
CG Solutions Global Holding Co	NIGERIA	Energy - Power
CG Solutions Global Holding Co	NIGERIA	Energy - Power
CHEMONICS INTERNATIONAL INC	NIGERIA	Services
ASIA FOUNDATION	PAKISTAN	Services

PROJECT NAME	COUNTRY NAME	SECTOR
INSURANCE		
ASIA FOUNDATION	PAKISTAN	Services
CHEMONICS INTERNATIONAL INC	PAKISTAN	Services
CITIBANK NA	PAKISTAN	Financial Services
INTERNATIONAL RESCUE COMMITTEE	PAKISTAN	Services
CHEMONICS INTERNATIONAL INC	PANAMA	Services
CHEMONICS INTERNATIONAL INC	PARAGUAY	Services
CHEMONICS INTERNATIONAL INC	PERU	Services
L F L P HOLDINGS L L C	PERU	Financial Services
ASIA FOUNDATION	PHILIPPINES	Services
ASIA FOUNDATION	PHILIPPINES	Services
CHEMONICS INTERNATIONAL INC	PHILIPPINES	Services
MidAmerican Energy Holdings Co	PHILIPPINES	Energy - Power
MIDAMERICAN ENERGY HOLDINGS CO	PHILIPPINES	Energy - Power
MIDAMERICAN ENERGY HOLDINGS CO INC	PHILIPPINES	Energy - Power
U S BANK NATIONAL ASSOCIATION	PHILIPPINES	Energy - Power
Asia Foundation	RISK	Services
Chemonics International Inc	RISK	Services
Citibank NA	RISK	Financial Services
Development Alternatives, Inc.	RISK	Services
International Rescue Committee	RISK	Services
A C D RESEARCH INC	RUSSIA	Services
A C D RESEARCH INC	RUSSIA	Services
Global Forestry Management	RUSSIA	Construction
INTERNATIONAL RESCUE COMMITTEE	RUSSIA	Services
MICROVEST + PLUS LP	RUSSIA	Financial Services
MICROVEST SHORT DURATION FUND LP	RUSSIA	Financial Services
MICROVEST SHORT DURATION FUND LP	RUSSIA	Financial Services
MICROVEST SHORT DURATION FUND LP	RUSSIA	Financial Services
MORGAN STANLEY INCORPORATED	RUSSIA	Financial Services
WESTERN RETAIL DEVELOPMENT L L C	RUSSIA	Services
CHEMONICS INTERNATIONAL INC	RWANDA	Services
INTERNATIONAL RESCUE COMMITTEE	RWANDA	Services
TEA IMPORTERS INC	RWANDA	Manufacturing
WESTROCK COFFEE HOLDINGS LLC	RWANDA	Agriculture
Westrock Coffee Holdings LLC	RWANDA	Agriculture
WESTROCK COFFEE HOLDINGS LLC	RWANDA	Agriculture
WESTROCK COFFEE HOLDINGS LLC	RWANDA	Agriculture
INTERNATIONAL RESCUE COMMITTEE	SIERRA LEONE	Services
INTERNATIONAL RESCUE COMMITTEE	SOMALIA	Services
CHEMONICS INTERNATIONAL INC	SOUTH AFRICA	Services
INTERNATIONAL RESCUE COMMITTEE	SOUTH SUDAN	Services
ASIA FOUNDATION	SRI LANKA	Services
ASIA FOUNDATION	SRI LANKA	Services
CHEMONICS INTERNATIONAL INC	TAJIKISTAN	Services
MICROVEST + PLUS LP	TAJIKISTAN	Financial Services
MICROVEST + PLUS LP	TAJIKISTAN	Financial Services
MICROVEST SHORT DURATION FUND LP	TAJIKISTAN	Financial Services
CHEMONICS INTERNATIONAL INC	TANZANIA	Services
INTERNATIONAL RESCUE COMMITTEE	TANZANIA	Services
WESTROCK COFFEE HOLDINGS LLC	TANZANIA	Agriculture
ASIA FOUNDATION	THAILAND	Services
ASIA FOUNDATION	THAILAND	Services
INTERNATIONAL RESCUE COMMITTEE	THAILAND	Services
CONTOURGLOBAL TOGO L L C	TOGO	Energy - Power
STEADFAST INSURANCE CO	TOGO	Energy - Oil and Gas
BUTLER, MARK	TURKEY	Tourism/Hotels
BUTLER, TAYYIBE EREN	TURKEY	Tourism/Hotels
BUTLER, YASHA	TURKEY	Tourism/Hotels
BLANCHARD T C I LTD	TURKS & CAICOS ISLANDS	Communication
ACCESS AFRICA FUND L L C	UGANDA	Financial Services
ACCESS AFRICA FUND LLC	UGANDA	Financial Services
CHEMONICS INTERNATIONAL INC	UGANDA	Services
INTERNATIONAL RESCUE COMMITTEE	UGANDA	Services
WESTROCK COFFEE HOLDINGS LLC	UGANDA	Agriculture

PROJECT NAME	COUNTRY NAME	SECTOR
INSURANCE		
AMSTED RAIL COMPANY INC	UKRAINE	Manufacturing
CHEMONICS INTERNATIONAL INC	UKRAINE	Services
CONTOURGLOBAL SOLUTIONS HOLDING COMPANY L L C	UKRAINE	Energy - Power
TRANSNATIONAL RESOURCE L L C	UKRAINE	Services
O & S CONSULTING	UZBEKISTAN	Tourism/Hotels
O&S CONSULTING LLC	UZBEKISTAN	Tourism/Hotels
O&S Consulting, LLC	UZBEKISTAN	Tourism/Hotels
CHEMONICS INTERNATIONAL INC	VIETNAM	Services
CHEMONICS INTERNATIONAL INC	WEST BANK & GAZA	Services
MORGANTI DEVELOPMENT L L C	WEST BANK & GAZA	Energy - Power
MORGANTI DEVELOPMENT L L C	WEST BANK & GAZA	Energy - Power
ACCESS AFRICA FUND LLC	ZAMBIA	Financial Services
ACCESS AFRICA FUND LLC	ZAMBIA	Financial Services
AMERICAN EMBASSY SCHOOL OF LUSAKA FOUNDATION INC	ZAMBIA	Services
AMERICAN EMBASSY SCHOOL OF LUSAKA FOUNDATION INC	ZAMBIA	Services
CHEMONICS INTERNATIONAL INC	ZAMBIA	Services
SEABOARD OVERSEAS LIMITED	ZAMBIA	Manufacturing
INTERNATIONAL RESCUE COMMITTEE	ZIMBABWE	Services

PROJECT NAME	COUNTRY NAME	SECTOR
NON HONORING SOVEREIGN GUARANTEE		
HRVATSKE AUTOCESTE D.O.O.	CROATIA	Construction
ISAGEN S.A. E.S.P.	COLOMBIA	Energy - Power
ISRAEL ELECTRIC CORPORATION LTD.	ISRAEL	Energy - Oil and Gas

APPENDIX C – PROJECT EMISSIONS CALCULATIONS

This appendix contains the inputs, data sources, and calculations used to estimate the emissions for each of the projects in OPIC's 2012 GHG Inventory. If applicant feedback was submitted in the years from 2007-2011, operational emissions estimates from those years were also included.

TIER A PROJECTS

AES Jordan

Maximum Potential-to-Emit Estimate

AES Jordan's emissions estimate of **1,545,173 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	370 MW	Project Description
Emission Factor @ 70% Load	390 g CO ₂ /kWh	IFC 2012
Load Adjustment Factor	85/70	Engineering adjustment to align maximum PTE with operational data supplied by project sponsor for inventory years 2009 through 2012.

Capacity-based maximum Potential-to-Emit = 1,545,173 short tons of CO₂e per year =

$$370\text{MW} * \frac{1000\text{kW}}{\text{MW}} * \frac{8000\text{hr}}{\text{yr}} * \frac{85}{70} * \frac{390\text{ g CO}_2}{\text{kWh}} * \frac{0.0000011023\text{ short tons}}{\text{g}}$$

2007 Emissions Estimate Based On Applicant Feedback

AES Jordan was under construction and not operational during 2007. Since emissions from construction would be below the 100,000 short ton threshold, this project was omitted from the 2007 inventory.

2008 Emissions Estimate Based On Applicant Feedback

AES Jordan's operational emissions estimate of **590,940 short tons of CO₂e** for 2008 was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Applicant
Net Energy Generated	10,103,603 MMBtu	Project Applicant
Emission Factor	53.06 kg CO ₂ /MMBtu	TCR, Table 12.1

Emissions = 590,940 short tons of CO₂e per year =

$$10,103,603\text{ MMBtu} * \frac{53.06\text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023\text{ short tons}}{\text{kg}}$$

2009 Emissions Estimate Based On Applicant Feedback

AES Jordan's operational emissions estimate of **1,318,130 short tons of CO₂e** for 2009 was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Applicant
Net Energy Generated	22,536,748 MMBtu	Project Applicant
Emission Factor	53.06 kg CO ₂ /MMBtu	TCR, Table 12.1

Emissions = 1,318,130 short tons CO₂e per year =

$$22,536,748 \text{ MMBtu} * \frac{53.06 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2010 Emissions Estimate Based On Applicant Feedback

AES Jordan's operational emissions estimate of **1,434,569 short tons of CO₂e** for 2010 was calculated using the following information:

Data	Value	Source
Unit 1 Emissions	678,706,541 kg CO ₂	Project Applicant
Unit 2 Emissions	622,726,311 kg CO ₂	Project Applicant

Emissions = 1,434,569 short tons of CO₂e per year =

$$(678,706,541 \text{ kg CO}_2 + 622,726,311 \text{ kg CO}_2) * \frac{0.0011023 \text{ short tons}}{\text{Kg}}$$

2011 Emissions Estimate Based On Applicant Feedback

AES Jordan's operational emissions estimate of **1,184,010 short tons of CO₂e** for 2011 was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas & Diesel	Project Applicant
Total Natural Gas Consumption	11,618,556 MMBtu	Project Applicant
Total Diesel Consumption	6,256,271 MMBtu	Project Applicant
Emission Factor Natural Gas	53.06 kg CO ₂ /MMBtu	TCR, Table 12.1
Emissions Factor Diesel	73.15 kg CO ₂ /MMBtu	The Climate Registry, Table 12-1

Emissions = 1,184,010 short tons CO₂e per year =

$$11,618,556 \text{ MMBtu} * \frac{53.06 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} +$$

$$6,256,271 \text{ MMBtu} * \frac{73.15 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2012 Emissions Estimate Based On Applicant Feedback

AES Jordan's operational emissions estimate of **936,400 short tons of CO₂e** for 2012 was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas & Diesel	Project Applicant
Total Natural Gas Consumption	5,069,853 MMBtu	Project Applicant
Total Diesel Consumption	7,851,448 MMBtu	Project Applicant
Emission Factor Natural Gas	53.02 kg CO ₂ /MMBtu	TCR 2013
Emissions Factor Diesel	73.96 kg CO ₂ /MMBtu	TCR 2013

Emissions = 936,400 short tons CO₂e per year =

$$5,069,853 \text{ MMBtu} * \frac{53.02 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} +$$

$$7,851,448 \text{ MMBtu} * \frac{73.96 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

AES Nigeria

Maximum Potential-to-Emit Estimate

AES Nigeria's emissions estimate of **1,603,307 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	270 MW	Project Description
Consumption	80 Mcf/day	Project Description
Heat Content Natural Gas	1,029 Btu/scf	TCR 2008, Table 12.1
Emission Factor	53.06kg CO ₂ /MMBtu	TCR 2008, Table 12.1

Capacity-based maximum Potential-to-Emit = 1,603,307 short tons of CO₂e per year

$$\frac{80 \text{Mcf}}{\text{day}} * \frac{333 \text{days}}{\text{yr}} * \frac{1,029 \text{Btu}}{\text{scf}} * \frac{53.06 \text{ kgCO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2007 Emissions Estimate

AES Nigeria's 2007 operational emissions estimate of **1,166,398 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	270 MW	Project Description
Consumption	58.165 Mcf/day	Project Applicant
Emission Factor	53.06kg CO ₂ /MMBtu	TCR 2008, Table 12.1

Emissions = 1,166,398 short tons of CO₂e per year

$$\frac{58.165 \text{Mcf}}{\text{day}} * \frac{333 \text{days}}{\text{yr}} * \frac{1,029 \text{Btu}}{\text{scf}} * \frac{53.06 \text{ kgCO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2008 Emissions Estimate

AES Nigeria's 2008 operational emissions estimate of **1,341,157 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	270 MW	Project Description
Consumption	66.92 Mcf/day	Project Applicant
Emission Factor	53.06kg CO ₂ /MMBtu	TCR 2008, Table 12.1

Emissions = 1,341,157 short tons of CO₂e per year

$$\frac{66.92 \text{ Mcf}}{\text{day}} * \frac{333 \text{ days}}{\text{yr}} * \frac{1,029 \text{ Btu}}{\text{scf}} * \frac{53.06 \text{ kgCO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2009 Emissions Estimate

AES Nigeria's 2009 operational emissions estimate of **988,271 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	270 MW	Project Description
Total Heat Input	16,896,970 MMBtu	Project Applicant
Emission Factor	53.06kg CO ₂ /MMBtu	TCR 2008, Table 12.1

Emissions = 988,271 short tons of CO₂e per year

$$16,896,970 \text{ MMBtu} * \frac{53.06 \text{ kgCO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2010 Emissions Estimate

AES Nigeria's 2010 operational emissions estimate of **949,754 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	270 MW	Project Description
Emissions	861,617 metric tons CO ₂	Project Applicant

Emissions = 949,754 short tons of CO₂e per year

$$861,617 \text{ metric tons CO}_2 * \frac{1 \text{ short ton}}{0.9072 \text{ metric tons}}$$

2011 Emissions Estimate

AES Nigeria did not provide feedback for the 2011 emission estimate. For that reason, the 2010 emission estimate was ascribed as the emission level for 2011.

2012 Operational Emissions Estimate Based On Applicant Feedback

AES Nigeria did not provide 2012 operations data though it asserted that 2012 emission levels were similar to the 2010 emission estimate. For that reason, the 2010 emission estimate was ascribed as the emission level for 2012.

Contour Global – Togo

Maximum Potential-to-Emit Estimate

Contour Global Togo's emissions estimate of **587,305 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Fuel Oil	Project Description
Capacity	100 MW	Project Description
Emission Factor for Emissions Estimate from Capacity	666 g CO ₂ /kWh	IFC 2012

Capacity-based maximum Potential-to-Emit = 587,305 short tons of CO₂e per year =

$$100\text{MW} * \frac{1000\text{kW}}{\text{MW}} * \frac{8000\text{hr}}{\text{yr}} * \frac{666\text{ gCO}_2}{\text{kWh}} * \frac{0.0000011023\text{ short tons}}{\text{g}}$$

2011 Emissions Estimate

Contour Global's 2011 operational emissions estimate of **46,561 short tons CO₂e** was calculated using the following information:

Data	Value	Source
2011 Emissions	42,239,975 kg	Project Applicant
Conversion Factor	0.0011023 short ton/kg	TCR 2008

Emissions = 46,561 short tons of CO₂e per year =

$$42,239,975\text{ kg} * \frac{0.0011023\text{ short ton}}{\text{kg}}$$

2012 Emissions Estimate

Contour Global's 2012 operational emissions estimate of **130,772 short tons CO₂e** was calculated using the following information:

Data	Value	Source
Natural Gas Consumption	591.37 mmscf	Project Applicant
Natural Gas Calorific Value	1,028 MMBtu/mmscf	TCR 2013
Natural Gas Emission Factor	52.02 kg CO ₂ /MMBtu	TCR 2013
Heavy Fuel Oil (HFO) Consumption	25.42 Gg	Project Applicant
HFO Net Calorific Value	40.4 TJ/Gg	IPCC 2006. Vol. 2, Chap. 1
HFO Emission Factor	77,400 kg CO ₂ /TJ	IPCC 2006. Vol. 2, Chap. 1
Light Fuel Oil (LFO) Consumption	0.87 Gg	Project Applicant
LFO Net Calorific Value	43.0 TJ/Gg	IPCC 2006. Vol. 2, Chap. 1
LFO Emissions Factor	74,100 kg CO ₂ /TJ	IPCC 2006. Vol. 2, Chap. 1
Conversion Factor	0.0011023 short ton/kg	

Emissions = 130,772 short tons of CO₂e per year =

591.37 mmscf * 1,028 MMBtu/mmscf * 52.02 kg CO₂/MMBtu * 0.0011023 short ton/kg +

25.42 Gg * 40.4 TJ/Gg * 77,400 kg CO₂/TJ * 0.0011023 short ton/kg +

0.87 Gg * 43.0 TJ/Gg * 74,100 kg CO₂/TJ * 0.0011023 short ton/kg

Gaza Private Generating PLC

Maximum Potential-to-Emit Estimate

Gaza Private Generating PLC's emissions estimate of **481,485 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	140 MW	Project Description
Emission Factor for Emissions Estimate from Capacity	390 g CO ₂ /kWh	IFC 2012

Capacity-based maximum Potential-to-Emit = 481,485 short tons of CO₂e per year =

140MW * $\frac{1000\text{kW}}{\text{MW}}$ * $\frac{8000\text{hr}}{\text{yr}}$ * $\frac{390\text{gCO}_2}{\text{kWh}}$ * $\frac{0.0000011023\text{ short tons}}{\text{g}}$

2007 Emissions Estimate

Gaza Private Generating PLC's 2007 operational emissions estimate of **293,804 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	136.4 MW	Project Applicant
2007 Emissions	266,539 metric tons	Project Applicant

Emissions = 293,804 short tons of CO₂e per year =

$$266,539 \text{ metric tons} * \frac{\text{short ton}}{0.9072 \text{ metric tons}}$$

2008 Emissions Estimate

Gaza Private Generating PLC's 2008 operational emissions estimate of **303,535 short tons CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	136.4 MW	Project Applicant
2008 Emissions	275,367 metric tons	Project Applicant

Emissions = 303,535 short tons of CO₂e per year =

$$275,367 \text{ metric tons} * \frac{\text{short ton}}{0.9072 \text{ metric tons}}$$

2009 Emissions Estimate

Gaza Private Generating PLC's operational emissions estimate of **325,926 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	LFO No.2	Project Description
Capacity	80 MW (2009 Capacity)	Project Applicant
2009 Emissions	295,680 metric tons	Project Applicant

Emissions = 325,926 short tons of CO₂e per year =

$$295,680 \text{ metric tons} * \frac{\text{short ton}}{0.9072 \text{ metric tons}}$$

2010 Emissions Estimate

Gaza Private Generating PLC's operational emissions estimate of **228,627 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	LFO No.2	Project Description
Capacity	80 MW (2009 Capacity)	Project Applicant
2010 Emissions	207,410 metric tons	Project Applicant

Emissions = 228,627 short tons of CO₂e per year =

$$207,410 \text{ metric tons} * \frac{\text{short ton}}{0.9072 \text{ metric tons}}$$

2011 Emissions Estimate

Gaza Private Generating PLC's operational emissions estimate of **405,262 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	LFO No.2	Project Description
Capacity	80 MW (2009 Capacity)	Project Applicant
2011 Emissions	367,654 metric tons	Project Applicant

Emissions = 405,262 short tons of CO₂e per year =

$$367,654 \text{ metric tons} * \frac{\text{short tons}}{0.9072 \text{ metric tons}}$$

2012 Emissions Estimate

Gaza Private Generating PLC's operational emissions estimate of **192 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Applicant
Natural Gas Consumption	99,093 m ³	Project Applicant
Natural Gas Emission Factor	0.05 kg CO ₂ /sfc	TCR 2013
Unit Conversion	35.31 scf/ m ³	
Unit Conversion	0.001 metric tons/kg	
Unit Conversion	1.1 short ton/metric ton	

Emissions = 192 short tons of CO₂e per year =

$$99,093 \text{ m}^3 * 35.31 \text{ scf/ m}^3 * 0.05 \text{ kg CO}_2/\text{sfc} * 0.001 \text{ metric tons/kg} * 1.1 \text{ short ton/metric ton}$$

Grenada Electricity Services (WRB)

Maximum Potential-to-Emit Estimate

Grenada Electricity Services (WRB)'s emissions estimate of **105,715 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Diesel (Fuel Oil)	Project Description
Capacity	18 MW	Project Description
Diesel Oil Emission Factor	666 g CO ₂ /kWh	IFC 2012

Capacity-based maximum Potential-to-Emit = 105,715 short tons of CO₂e per year =

$$18\text{MW} * \frac{1000\text{kW}}{\text{MW}} * \frac{8000\text{hr}}{\text{yr}} * \frac{666 \text{ gCO}_2}{\text{kWh}} * \frac{0.0000011023 \text{ short tons}}{\text{g}}$$

2007 Emissions Estimate

Grenada Electricity Services (WRB)'s 2007 operational emissions estimate of **114,571 short tons CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Diesel (Fuel Oil)	Project Description
Fuel Consumption	10,821,042 gallons	Project Applicant
Heat Rate	8013 Btu/kWh	Project Applicant
Diesel LHV	70302 Btu/kg	Project Applicant
Energy Generated	117,323,661 kWh	Project Applicant
Emissions Factor	73.15 kg CO ₂ /MMBtu	TCR 2008, Table 12-1
2007 Emissions	114,571 short tons	Project Applicant

Emissions = 114,571 of short tons CO₂e per year

2008 Emissions Estimate

Grenada Electricity Services (WRB)'s 2008 operational emissions estimate of **121,156 short tons CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Diesel (Fuel Oil)	Project Description
Fuel Consumption	11,436,588 gallons	Project Applicant
Heat Rate	8006 Btu/kWh	Project Applicant
Diesel LHV	40306 Btu/kg	Project Applicant
Energy Generated	187,689,464 kWh	Project Applicant
Emissions Factor	73.15 kg CO ₂ /MMBtu	TCR 2008, Table 12-1
2008 Emissions	121,156 short tons	Project Applicant

Emissions = 121,156 short tons CO₂e per year

2009 Emissions Estimate

Grenada Electricity Services (WRB)'s 2009 operational emissions estimate of **141,127 short tons CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Diesel (Fuel Oil)	Project Description
Operating Hours	8,760	Project Description
Fuel Consumption	11,905,997 US gallons	Project Applicant
Heat Rate	8,458 kJ/kWh or 8,016 BTU/kWh	Project Applicant
Diesel LHV	42,400 kJ/kg or 40,188 BTU/kg	Project Applicant
Energy Generated	194,279,333 kWh	Project Applicant
Emissions Factor	659 grams CO ₂ /kWh	IFC 2006

Emissions = 141,127 short tons of CO₂e per year =

$$\frac{659 \text{ g CO}_2}{\text{kWh}} * 194,279,333 \text{ kWh} * \frac{0.0000011023 \text{ short tons}}{\text{kg}}$$

2010 Emissions Estimate

Grenada Electricity Services (WRB)'s 2010 operational emissions estimate of **135,237 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Emissions (Fuel input based)	135,237 short tons CO ₂	Project Applicant

Emissions = 135,237 short tons CO₂e per year

2011 Emissions Estimate

Grenada Electricity Services (WRB)'s 2011 operational emissions estimate of **134,371 short tons CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Diesel (Fuel Oil)	Project Description
Fuel Consumption	12,075,555 US gallons	Project Applicant
Emissions Factor	73.15 kg CO ₂ /MMBtu	TCR 2008
Conversion Factor	42 gal/bbl	TCR 2008
Conversion Factor	5.796 MMBtu/bbl	TCR 2008
Conversion Factor	907.18 kg/short ton	

Emissions = 134,371 short tons of CO₂e per year =

$$12,075,555 \times \frac{1 \text{ Bbl}}{42 \text{ gal}} \times 5.796 \text{ MMBtu} \times \frac{73.15 \text{ kg CO}_2}{\text{MMBtu}} \times \frac{\text{short tons}}{907.18 \text{ kg}}$$

2012 Emissions Estimate

Grenada Electricity Services (WRB)'s 2012 operational emissions estimate of **131,206 short tons CO₂e** was calculated using the following information:

Data	Value	Source
Diesel Fuel Consumption	11,658,192 gal	Project Applicant
Emissions Factor	10.21 kg CO ₂ /gal	TCR 2013
Conversion Factor	0.0011023 short ton/kg	

Emissions = 131,206 short tons of CO₂e per year =

$$11,658,192 \text{ gal} \times 10.21 \text{ kg CO}_2/\text{gal} \times 0.0011023 \text{ short ton/kg}$$

Isagen SA

Maximum Potential-to-Emit Estimate

Isagen SA's emissions estimate of **687,835 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	200 MW + 100 MW from steam turbine	Project Description
Natural Gas Emission Factor	390 g CO ₂ /kWh	IFC 2012

Capacity-based maximum Potential-to-Emit = 687,835 short tons of CO₂e per year

$$200\text{MW} * \frac{1000\text{kW}}{\text{MW}} * \frac{8000\text{hr}}{\text{yr}} * \frac{390\text{ gCO}_2}{\text{kWh}} * \frac{0.0000011023\text{ short tons}}{\text{g}}$$

2007 Emissions Estimate

Isagen SA's 2007 operational emissions estimate of **203,010 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	300 MW	Project Description
2007 Emissions	184,171 metric tons	Project Applicant

Emissions = 203,010 short tons of CO₂e per year

$$184,171\text{ metric tons} * \frac{\text{short tons}}{0.9072\text{ metric tons}}$$

2008 Emissions Estimate

Per Applicant feedback, emissions were below the 100,000 short tons CO₂e threshold and, thus, were not included in the 2008 inventory.

2009 Emissions Estimate

Isagen SA's 2009 operational emissions estimate of **300,706 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	300 MW	Project Description
2009 Emissions	272,800 metric tons	Project Applicant

Emissions = 300,706 short tons of CO₂e per year

$$272,800\text{ metric tons} * \frac{\text{short tons}}{0.9072\text{ metric tons}}$$

2010 Emissions Estimate

Isagen SA's 2010 operational emissions estimate of **305,181 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	300 MW	Project Description
2010 Emissions	276,860 metric tons	Project Applicant

Emissions = 305,181 short tons of CO₂e per year

$$276,860 \text{ metric tons} * \frac{\text{short tons}}{0.9072 \text{ metric tons}}$$

2011 Emissions Estimate

No additional data was available. The 2011 emissions estimate defaulted to the 2010 emissions estimate.

2012 Emissions Estimate

No additional data was available. The 2012 emissions estimate defaulted to the 2010 emissions estimate.

TIER B PROJECTS

Baku-Tblisi-Ceyhan Pipeline

Maximum Potential-to-Emit Estimate

The Baku-Tblisi-Ceyhan Pipeline (Baku)'s emissions estimate of **699,034 short tons of CO₂e** was calculated for emissions related to the combustion of natural gas and diesel in the transportation of crude oil through the pipeline. We assumed that the 180 Btu per short ton of crude oil transport per mile energy requirement was evenly split between natural gas and diesel. Baku's emission estimate is based on the following information:

Data	Value	Source
Fuel Type used for Transport	Natural Gas (gas) and Diesel (dual fuel)	Project Description
Pipeline Throughput	1 million barrels crude oil	Project Description
Pipeline Length	1,760 km	Project Description
Conversion Factors	1.6093 km/mile 7.3 lbs/gal (density of crude)	EPA 1985, p.A-7
Energy Required for Pipeline Transport (Crude)	180 Btu/short tons crude oil per mile (for ~40in. diameter pipeline)	TASPEIS, p. 4.9-2
Emissions Factors	53.06 kg CO ₂ /MMBtu (natural gas) 73.15 kg CO ₂ /MMBtu (diesel)	TCR 2008

Maximum Potential-to-Emit = 699,034 short tons of CO₂e per year

$$\frac{1000000\text{Bbl}}{\text{day}} * \frac{333\text{day}}{\text{yr}} * \frac{7.3\text{lbs}}{\text{gal}} * \frac{42\text{gal}}{\text{Bbl}} * \frac{\text{short ton}}{2000\text{lbs}} = 51,048,900 \text{ short tons of crude/yr}$$

$$\frac{51048900\text{short tons crude}}{\text{yr}} * 1760\text{km} * \frac{\text{mile}}{1.6093\text{km}} * \frac{180\text{Btu}}{\text{short ton-mile}} * \frac{\text{MMBtu}}{1000000\text{Btu}} = 0,049,271 \text{ MMBtu/yr}$$

$$\frac{10049271\text{MMBtu}}{\text{yr}} * \frac{73.15 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} * 0.5 = 405,153 \text{ short tons of CO}_2/\text{yr from diesel}$$

$$\frac{10049271\text{MMBtu}}{\text{yr}} * \frac{53.06 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} * 0.5 = 293,881 \text{ short tons of CO}_2/\text{yr from gas}$$

2007 Emissions Estimate

The Baku-Tblisi-Ceyhan Pipeline's 2007 operational emissions estimate of **707,672 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
2008 Emissions	642,000 metric tons	Project Applicant

For the purpose of this baseline calculation, we assumed that the 2007 operating year was similar to the 2008 operating year, for which emissions information was provided; therefore,

Emissions = 707,672 short tons of CO₂e per year =

$$642,000 \text{ metric tons} * \frac{\text{short tons}}{0.9072 \text{ metric tons}}$$

2008 Emissions Estimate

Per Applicant feedback, there were no differences in emissions and operational factors for 2007 and 2008.

2009 Emissions Estimate

The Baku-Tblisi-Ceyhan Pipeline's 2009 operational emissions estimate of **787,577 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
2009 Emissions	714,490 metric tons	Project Applicant

For the purpose of this calculation, Pace Global assumed the 2009 operating year was similar to the 2007-2008 operating year, for which emissions information was provided.

Emissions = 787,577 short tons of CO₂e per year =

$$714,490 \text{ metric tons} * \frac{\text{short tons}}{0.9072 \text{ metric tons}}$$

2010 Emissions Estimate

The Baku-Tblisi-Ceyhan Pipeline's 2010 operational emissions estimate of **723,214 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
2010 Emissions	656,100 metric tons	Project Applicant

For the purpose of this calculation, we assumed the 2010 operating year was similar to the 2008-2009 operating year, for which emissions information was provided.

Emissions = 723,214 short tons of CO₂e per year =

$$656,100 \text{ metric tons} * \frac{\text{short tons}}{0.9072 \text{ metric tons}}$$

2011 Emissions Estimate

The Baku-Tblisi-Ceyhan Pipeline's 2011 operational emissions estimate of **671,605 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
2011 Emissions	609,280 metric tons	Project Applicant

For the purpose of this calculation, we assumed the 2011 operating year was similar to the 2009-2010 operating year, for which emissions information was provided.

Emissions = 671,605 short tons of CO₂e per year =

$$609,280 \text{ metric tons} * \frac{\text{short tons}}{0.9072 \text{ metric tons}}$$

2012 Emissions Estimate

The Baku-Tblisi-Ceyhan Pipeline's 2012 operational emissions estimate of **584,200 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
2012 Emissions	529,986 metric tons	Project Applicant

Emissions = 584,200 short tons of CO₂e per year.

$$609,280 \text{ metric tons} * \frac{\text{short tons}}{0.9072 \text{ metric tons}}$$

Lukoil RPK-Vysotsk

Maximum Potential-to-Emit Estimate

Lukoil RPK-Vysotsk's emissions were calculated using throughput from various years along with standard emission conversion factors.

Data	Value	Source
2009 Throughput	13,893,533 Tons	Project Description
2007 Throughput	9,173,100 Tons	Project Description
2007 Emissions	70,767 short tons	Project Description

Emissions = **107,184 short tons CO₂e** per year =

$$\frac{13,893,533 \text{ tons} * 70,767 \text{ short tons of CO}_2\text{e}}{9,173,100 \text{ tons}}$$

2007 Emissions Estimate

2006 data was the most recent data available. The 2007 project emissions estimate was calculated using throughput volumes. OPIC estimated the project's emissions were **70,767 short tons of CO₂e** for 2007. Lukoil's emissions estimate was calculated using the following information:

Data	Value	Source
Fuel Type	Petroleum Products	Project Description
2006 Emissions	64,200 metric tons	Project Description

Emissions = 76,339 short tons of CO₂e per year =

$$\frac{64,200 \text{ metric tons}}{0.9072}$$

2008 Emissions Estimate

Per Applicant feedback, emissions and operational factors did not change from 2007 to 2008.

2009 Emissions Estimate

2006 data was the most recent data available. 2009 project emissions were calculated using throughput volumes. OPIC estimated the project's emissions were **76,339 short tons of CO₂e** for 2009. Lukoil's emissions estimate was calculated using the following information:

Data	Value	Source
Fuel Type	Petroleum Products	Project Description
Throughput Volumes	(2006) 9,173,100 tons (2009) 13,893,533 tons	Project Description
2006 Emissions	50,402 short tons	Project Description

Emissions = 76,339 short tons of CO₂e per year =

$$\frac{(13,893,533 * 50,402)}{9,173,100}$$

2010 Emissions Estimate

Lukoil's 2010 operational emissions estimate of **97,117 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Petroleum Products	Project Description
Fuel Consumption	25,736 tons petroleum	Project Description

Emissions = 97,117 short tons of CO₂e per year =

$$\frac{(25,736 \text{ tons petroleum} * 6.91 \text{ Bbl} * 6.287 \text{ MMBtu} * 78.8 \text{ kg CO}_2)}{907.18 \text{ kg/short ton}}$$

2011 Emissions Estimate

Lukoil's 2010 operational emissions estimate of **91,143 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Petroleum Products	Project Description
Fuel Consumption	24,153 tons petroleum	Project Description

Emissions = 91,143 short tons of CO₂e per year =

$$\frac{(24,153 \text{ tons petroleum} * 6.91 \text{ Bbl} * 6.287 \text{ MMBtu} * 78.8 \text{ kg CO}_2)}{907.18 \text{ kg/short tons}}$$

2012 Emissions Estimate

Lukoil's 2012 operational emissions estimate of **92,696 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Type IV High-Ash Fuel Oil-100	Project Description
Fuel Consumption	26,605,163 kg	Project Description
Net Heat Content	40,837 kJ/kg	Project Description
Emission Factor	77,400 kg CO ₂ /TJ	2006 IPCC, Vol.2, Chap. 1
Conversion Factor	0.001102 kg/short ton	
Conversion Factor	10 ⁻⁹ TJ/kJ	

Emissions = 92,696 short tons of CO₂e per year =

26,605,163 kg * 40,837 kJ/kg * 10⁻⁹ TJ/kJ * 77,400 kg CO₂/TJ * 0.001102 kg/short ton

Pannonia Ethanol

Maximum Potential-to-Emit Estimate

Pannonia's emissions were calculated using the following information:

Data	Value	Source
Natural Gas Throughput	7,000 m ³ /hr	Project Description
Natural Gas Emission Factor	0.05 kg CO ₂ /scf	TCR 2013
Operating Assumption	8,000 hr/yr	
Conversion Factor	35.31 scf/m ³	
Conversion Factor	0.001102 short tons/kg	

Emissions = 110,543 short tons of CO₂e per year =

7,000 m³/hr * 8,000 hr/yr * 35.31 scf/m³ * 0.05 kg CO₂/scf * 0.001102 short tons/kg

2012 Emissions Estimate

Pannonia's 2012 operational emissions estimate was based on the project sponsors certified 2012 Environmental and Social Compliance Report:

Data	Value	Source
Emissions	58,282 metric tons CO ₂ e	Project Applicant
Conversion Factor	1,102 short tons/metric ton	

Emissions = 64,244 short tons of CO₂e per year =

58,282 metric tons CO₂e * 1,102 short tons/metric ton

Various Egypt Subsidiaries (Apache)

Maximum Potential-to-Emit Estimate

Various Egypt Subsidiaries (Apache)'s emissions estimate of **2,429,543 short tons of CO₂e** was calculated using an example from API for a similar oil and gas extraction and processing facility. The API example produced 6100 barrels of oil per day and 30 MMscf natural gas per day for annual emissions of 108,000 metric tons of CO₂, approximately one-tenth the amount of Apache's. Apache's emissions estimate was calculated using the following information:

Data	Value	Source
Fuel Type	Oil and Natural Gas	Project Description
Production Volumes	29,934,702 barrels oil per year 89,910 MMscf natural gas per year	Project Description
"Emissions Factors"	108,000 metric tons CO ₂ per year for a facility that produces 6100 barrels oil per day and 30 MMscf natural gas per day	API 2004, Table 7-4
Multiplication Factor	10	Factor applied to account for approximate size discrepancy between Apache and example
Operating Capacity Adjustment	49%	Project Applicant

Maximum Potential-to-Emit = 2,429,543 short tons of CO₂e per year =

$$\frac{108,000 \text{ metric tons CO}_2}{\text{yr}} * \frac{\text{short tons}}{0.9072 \text{ metric tons}} * 10 * (1/.49)$$

2007 Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2007 operational emissions estimate of **3,071,932 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
2007 Emissions	1,365,560 metric tons	Project Applicant
Operating Capacity Adjustment	49%	Project Applicant

Emissions = 3,071,932 short tons of CO₂e per year =

$$1,365,560 \text{ metric tons} * \frac{\text{short ton}}{0.9072 \text{ metric tons}} * (1/.49)$$

2008 Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2008 operational emissions estimate of **3,244,189 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
2008 Emissions	1,365,560 metric tons	Project Applicant
Operating Capacity Adjustment	49%	Project Applicant

Emissions = 3,244,189 short tons of CO₂e per year =

$$1,365,560 \text{ metric tons} * \frac{\text{short tons}}{0.9072 \text{ metric tons}} * (1/.49)$$

2009 Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2009 operational emissions of **3,294,654 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
2009 Emissions	1,464,566 metric tons	Project Applicant
Operating Capacity Adjustment	49%	Project Applicant

Emissions = 3,294,654 short tons of CO₂e per year =

$$1,464,566 \text{ metric tons} * \frac{\text{short tons}}{0.9072 \text{ metric tons}} * (1/.49)$$

2010 Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2010 operational emissions estimate of **3,465,842 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
2010 Emissions	1,540,664 metric tons	Project Applicant
Operating Capacity	49%	Project Applicant

Emissions = 3,465,842 short tons of CO₂e per year

$$1,540,664 \text{ metric tons} * \frac{\text{short tons}}{0.9072 \text{ metric tons}} * (1/.49)$$

2011 Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2011 operational emissions estimate of **4,438,554 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
2010 Emissions	4,026,656 metric tons	Project Applicant

Emissions = 4,438,554 short tons of CO₂e per year

$$4,026,656 \text{ metric tons} * \frac{\text{short tons}}{0.9072 \text{ metric tons}}$$

2012 Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2012 operational emissions estimate of **4,178,447 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
2012 Emissions	3,790,687 metric tons	Project Applicant

Emissions = 4,178,447 short tons of CO_{2e} per year =

$$3,790,687 \text{ metric tons} * \frac{\text{short tons}}{0.9072 \text{ metric tons}}$$

West African Gas Pipeline

Maximum Potential-to-Emit Estimate

The West African Gas Pipeline's emissions calculation of **244,728 short tons of CO_{2e}** accounts for both combustion emissions from the compression and transmission of natural gas as well as fugitive emissions using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Pipeline Throughput	190 MMscfd	Project Description
Emissions Factors	3439 lbs CO ₂ per MMscfd from combustion 4297 lbs CO ₂ per MMscfd from fugitive	EIA 2008; EPA 2008, Tables 3-34 & 3-36

Total-emissions estimate = 244,728 short tons of CO_{2e} per year =

$$\frac{190 \text{ MMscf}}{\text{day}} * \frac{333 \text{ day}}{\text{yr}} * \frac{3439 \text{ lbs CO}_2}{\text{MMscf}} * \frac{\text{short tons}}{2000 \text{ lbs}} = 108,792 \text{ short tons of CO}_2/\text{yr (combustion)}$$

$$\frac{190 \text{ MMscf}}{\text{day}} * \frac{333 \text{ day}}{\text{yr}} * \frac{4297 \text{ lbs CO}_2}{\text{MMscf}} * \frac{\text{short tons}}{2000 \text{ lbs}} = 135,936 \text{ short tons of CO}_2/\text{yr (fugitive)}$$

2007 Emissions Estimate

The West African Gas Pipeline was under construction and not operational during 2007. Since emissions from construction would have been below the 100,000 short ton threshold, this project was omitted from the 2007 inventory.

2008 Emissions Estimate

The West African Gas Pipeline was not operational during 2008. Since emissions would have been below the 100,000 short ton threshold, this project was omitted from the 2008 inventory.

2009 Emissions Estimate

No additional data was available. 2009 data defaulted to the maximum potential-to-emit.

2010 Emissions Estimate

West African Gas Pipeline's 2010 operational emissions estimate of **91,451 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Pipeline Throughput	190 MMscfd	Project Description
Emissions Factors	3,439 lbs CO ₂ per MMscfd from combustion 4,297 lbs CO ₂ per MMscfd from fugitive	EIA 2008; EPA 2008, Tables 3-34 & 3-36

Emissions = 91,451 short tons of CO₂e per year =

$$\frac{71 \text{ MMscf}}{\text{day}} * \frac{333 \text{ day}}{\text{yr}} * \frac{3,439 \text{ lbs CO}_2}{\text{MMscf}} * \frac{\text{short tons}}{2000 \text{ lbs}} = 40,654 \text{ short tons of CO}_2/\text{yr (combustion)}$$

$$\frac{71 \text{ MMscf}}{\text{day}} * \frac{333 \text{ day}}{\text{yr}} * \frac{4,297 \text{ lbs CO}_2}{\text{MMscf}} * \frac{\text{short tons}}{2000 \text{ lbs}} = 50,797 \text{ short tons of CO}_2/\text{yr (fugitive)}$$

2011 Emissions Estimate

West African Gas Pipeline's 2011 operational emissions estimate is **86,617 short tons of CO₂e**. According to applicant feedback, there were 38,505 short tons of emissions associated with combustion emissions and 48,112 short tons of emissions associated with fugitive emissions.

2012 Emissions Estimate

West African Gas Pipeline's 2012 operational emissions estimate is **86,617 short tons of CO₂e**. According to applicant feedback, there were 38,505 short tons of emissions associated with combustion emissions and 48,112 short tons of emissions associated with fugitive emissions, which represent the same emission levels asserted by the Project Applicant for the 2011 GHG Inventory. The level of emissions claimed in 2012 represent 35 percent of the project's maximum potential-to-emit.

TIER C PROJECTS

Tier C projects were not included in the 2007 and 2008 inventories. Emissions calculations for these projects have been included in all inventories from 2009 to the present.

CGLOB Astarta Zhadanivka Kyiv LLC

Maximum Potential-to-Emit Estimate

CGLOB Astarta Zhadanivka Kyiv LLC's emissions were calculated using the following information:

Data	Value	Source
Total Direct Emissions	25,000 short tons	Project Description

Total emissions estimate = 25,000 short tons of CO₂e per year

2011 Emissions Estimate

CGLOB Astarta Zhadanivka Kyiv LLC's 2011 operational emissions estimate was found to be below the threshold of 25,000 short tons of CO₂e based on the following information:

Data	Value	Source
Fuel Type	Natural Gas and Coal	Project Description
Capacity	5.4 MW (Natural Gas)	Project Description
Natural Gas Emission Factor	395 g CO ₂ /kWh	IFC 2006
Conversion Factor	0.0000011023 short tons/g	TCR 2008
2011 Fuel Consumption	1,518 short tons Coal	Project Description
Emissions Factor	97.09 kg CO ₂ /MMBtu Coal	TCR 2008, Table 12.1
Conversion Factor	17.25 MMBtu/short ton Coal	TCR 2008, Table 12.1

Emissions = 21,612 short tons of CO₂e per year =

$$5.4 \text{ MW} * \frac{8,000 \text{ hr}}{\text{yr}} * \frac{395 \text{ g CO}_2}{\text{kWh}} * \frac{1000 \text{ kW}}{\text{MW}} * \frac{0.0000011023 \text{ short tons}}{\text{g}}$$

$$+$$

$$1,518 \text{ short tons coal} * \frac{17.25 \text{ MMBtu}}{\text{short ton coal}} * \frac{97.09 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2012 Emissions Estimate

CGLOB Astarta Zhadanivka Kyiv LLC's 2012 operational emissions estimate of **36,886 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Natural Gas Consumption	11,840 thousand m ³	Project Applicant
Natural Gas Emissions Factor	0.05 kg CO ₂ /scf	TCR 2013
Coal Consumption	1,448 metric tons	Project Applicant
Coal Emissions Factor	2098.89 kg CO ₂ /short ton	TCR 2013
Limestone Consumption	20,931 metric tons	Project Applicant
CO ₂ / CaCO ₃ Molecular Weight Ratio	0.44	
Conversion Factor	35,310 scf/thousand m ³	
Conversion Factor	0.0011023 short tons/kg	
Conversion Factor	0.9072 metric tons/short ton	

Emissions = 36,886 short tons of CO₂e per year =

$$11,840 \text{ thousand m}^3 * 35,310 \text{ scf/thousand m}^3 * 0.05 \text{ kg CO}_2/\text{scf} * 0.0011023 \text{ short tons/kg} +$$

$$1,448 \text{ metric tons coal} * \frac{\text{short ton}}{0.9072 \text{ metric tons}} * \frac{2,098.89 \text{ kg CO}_2}{\text{short ton coal}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} +$$

$$20,931 \text{ metric tons limestone} * \frac{\text{short ton}}{0.9072 \text{ metric tons}} * \frac{0.44 \text{ CO}_2}{\text{CaCO}_3}$$

Citadel – Grandview Investment Holdings

2012 Emission Estimate

Citadel – Grandview Investment Holdings' 2012 emissions estimate of **46,609 short tons of CO₂e** were calculated using the following information:

Data	Value	Source
Natural Gas Consumption	24 million m ³	Project Description
Conversion Factor	1,000,000 m ³ / million m ³	
Conversion Factor	35.31 scf/ m ³	
Natural Gas Emission Factor	0.05 kg CO ₂ / scf	TCR 2013
Conversion Factor	0.001 metric tons/ kg	
Conversion Factor	1.1 short tons/ metric ton	

Total emissions estimate = 46,609 short tons of CO₂e per year =

(24 million m³ * 1,000,000 m³/ million m³ * 35.31 scf/ m³ * 0.05 kg CO₂/ scf *

0.001 metric tons/ kg * 1.1 short tons/ metric ton)

Joshi Technologies / Parko Services

2009 Emissions Estimate

Joshi Technologies / Parko's 2009 project emissions estimate of **30,398 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Consumption	20,000,000 mil cu. meters	Project Description

Consumption-based emissions = 30,398 short tons of CO₂e per year

20 MMm³ * $\frac{35.3 \text{ ft}^3}{\text{M}^3}$ * $\left(\frac{1027 \text{ Btu}}{\text{ft}^3} * \frac{1 \text{ MMBtu}}{1,000,000 \text{ Btu}}\right)$ * $\frac{53.06 \text{ kgCO}_2}{\text{MMBtu}}$ * $\frac{0.0011023 \text{ tons}}{\text{kg}}$

2010 Emissions Estimate

Joshi Technologies / Parko's 2010 project emissions estimate of **57,826 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Internal Combustion Emissions (gas)	4,010 short tons CO ₂	Project Applicant
External Combustion Emissions (gas)	9,789 short tons CO ₂	Project Applicant
Flared Gas Emissions	25,927 short tons CO ₂	Project Applicant
Internal Combustion Emissions (diesel)	18,100 short tons CO ₂	Project Applicant

Emissions = 57,826 short tons of CO₂e per year =

4,010 short tons CO₂ + 9,789 short tons CO₂ + 25,927 short tons CO₂ + 18,100 short tons CO₂

2011 Emissions Estimate

Joshi Technologies / Parko's 2011 project emissions estimate of **43,564 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Internal Combustion Emissions (gas)	4,918 short tons CO ₂	Project Applicant
External Combustion Emissions (gas)	11,169 short tons CO ₂	Project Applicant
Flared Gas Emissions	22,611 short tons CO ₂	Project Applicant
Internal Combustion Emissions (diesel)	4,866 short tons CO ₂	Project Applicant

Emissions = 43,564 short tons of CO₂e per year =

4,918 short tons CO₂ + 11,169 short tons CO₂ + 22,611 short tons CO₂ + 4,866 short tons CO₂

2012 Emissions Estimate

Joshi Technologies / Parko's 2012 project emissions estimate of **52,894 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Natural Gas Combustion in Dehydration Process	203 mmscf	Project Applicant
Natural Gas Combustion in Power Generation	124 mmscf	Project Applicant
Natural Gas High Heat Value	1,028 MMBtu/mmscf	TCR 2013
Natural Gas Emission Factor	53.02 kg CO ₂ /MMBtu	TCR 2013
Natural Gas Flared	468*10 ⁶ scf	Project Applicant
Natural Gas Flared Emission Factor	2*10 ⁻⁶ Gg CO ₂ /m ³	API 2009, Table 4-11
Diesel Combustion in Drilling Rigs	225,000 gal	Project Applicant
Diesel Combustion in Workover Rigs	103,680 gal	Project Applicant
Diesel Combustion in Vehicle Fleet	29,646 gal	Project Applicant
Diesel Emission Factor	10.21 kg CO ₂ /gal	TCR 2013
Conversion Factor	0.0283 m ³ /scf	
Conversion Factor	1,102 short ton/Gg	
Conversion Factor	0.001102 short ton/kg	

Emissions = 52,894 short tons of CO₂e per year =

(203 +124 mmscf) * 1,028 MMBtu/mmscf * 53.02 kg CO₂/MMBtu * 0.001102 short ton/kg +

468*10⁶ scf * 0.0283 m³/scf * 2*10⁻⁶ Gg CO₂/m³ * 1,102 short ton/Gg +

(225,000 + 103,680 + 29,646 gal) * 10.21 kg CO₂/gal * 0.001102 short ton/kg

APPENDIX D – COMMON CONVERSIONS

Listed below are common emission and conversions factors used in the development of emission estimates.

Value	Unit of Measure	Source
8,000	Hours per Year	Conservative Operating Assumption – EIA Form 923 data, 2007
333	Days per Year	Calculated from Hours per Year
1,000,000	Btu per MMBtu	TCR 2008
0.001	metric tons per kg	TCR 2008
0.0011023	short tons per kg	TCR 2008
1,000,000	scf per Mcf	TCR 2008
0.02832	m ³ per scf	TCR 2008
0.9072	metric tons per short ton	TCR 2008
0.000001	metric tons per g	TCR 2008
0.0000011023	short tons per g	TCR 2008
907.18	kg per short ton	TCR 2008
2.2046	lbs per kg	TCR 2008
2,204.62	lbs per metric tonne	TCR 2008
2,000	lbs per short ton	TCR 2008
42	gallons per barrel	TCR 2008
53.02	kg CO ₂ per MMBtu natural gas	TCR 2013
73.96	kg CO ₂ per MMBtu diesel (fuel oil #2)	TCR 2013
93.40	kg CO ₂ per MMBtu coal (bituminous)	TCR 2013
97.02	kg CO ₂ per MMBtu coal (sub-bituminous)	TCR 2013
74.49	kg CO ₂ per MMBtu crude oil	TCR 2013
0.05	kg CO ₂ per scf natural gas	TCR 2013
75.10	kg CO ₂ per MMBtu Residual Fuel Oil (#6)	TCR 2013
1,028	Btu per scf natural gas	TCR 2013
5.796	MMBtu per barrel diesel (fuel oil #2)	TCR 2013
24.93	MMBtu per short ton coal (bituminous)	TCR 2013
17.25	MMBtu per short ton coal (sub-bituminous)	TCR 2013
5.796	MMBtu per barrel crude oil	TCR 2013
2098.89	kg CO ₂ per short ton coal (mixed industrial sector)	TCR 2013
901	g CO ₂ per kWh generated using coal	IFC 2012
666	g CO ₂ per kWh generated using oil	IFC 2012
390	g CO ₂ per kWh generated using natural gas	IFC 2012
0.44	Short tons CO ₂ per short ton limestone processed	IPCC 2006

APPENDIX E – ANNOTATED BIBLIOGRAPHY

API 2004 (American Petroleum Institute). *Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Gas Industry*. February 2004. Accessed January 2008.
<http://www.api.org/ehs/climate/new/upload/2004_COMPENDIUM.pdf>

Examples from API were used for those projects in Tier B [Accroven SRL, Various Egypt Subsidiaries (Apache), EP Interoil, RPK-Vysotsk (Lukoil II)] for which there were no consumption volumes or other data to base an emissions estimate on. The size of operations for these examples was compared to the size of the projects in Tier B, resulting in a multiplication factor which was applied to the API example's emissions estimate to arrive at an approximate estimate for the Tier B project. Additionally, a methane-fugitive emissions factor for compression, sourced from the API Compendium of Greenhouse Gas Emissions, Table 6-5, was used for the Wilpro Energy Services projects.

API 2009 (American Petroleum Institute). *Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Gas Industry*. August 2009.

EIA 2008. Energy Information Administration (EIA) *U.S. Natural Gas Consumption by End Use*. 2003-2007. Accessed January 2008.
<http://tonto.eia.doe.gov/dnav/ng/ng_cons_sum_dcu_nus_a.htm>

Emissions from natural pipeline transport are very segment specific, varying by pipeline infrastructure, compression energy source, and segment distance. In order to define the related emissions for representative pipeline hauls in the absence of system specifications, Pace Global assumed pipeline-fuel consumption and both combustion and non-combustion CO_{2e} emissions, based on EIA natural gas consumption data and data from the U.S. GHG Inventory released by EPA in 2008. This data yielded an average fugitive-emission-loss rate of 1.7 percent (per unit volume), and fugitive emissions factor of 4,297 lbs of CO₂ per MMscfd. The emissions associated with combustion required to move natural gas were calculated to be 3,439 lbs of CO₂ per MMscd.

EIA 2013. Voluntary Reporting of Greenhouse Gas Coefficients. [Voluntary Reporting of Greenhouse Gases Program \(Voluntary Reporting of Greenhouse Gases Program Fuel Carbon Dioxide Emission Coefficients\)](#). January 2013. Accessed January 2013.

EPA 1985. United States Environmental Protection Agency (EPA). *AP 42: Compilation of Air Pollutant Emission Factors, Volume 1 Stationary Point and Area Sources*. [Appendix A: Miscellaneous Data & Conversion Factors](#). September 1985. Accessed January 2008.
<<http://www.epa.gov/ttn/chief/ap42/>>

Conversion factors not provided by The Climate Registry were obtained from U.S. EPA's AP 42 document, specifically for the density of natural gas and crude oil and the conversion of kilometers to miles.

EPA 2008. United States Environmental Protection Agency (EPA). *Inventory of U.S. GHG Emissions and Sinks, 1990-2006*. Tables 3-34 and 3-36. Accessed January 2008.

<http://www.epa.gov/climatechange/emissions/downloads/08_CR.pdf>

Emissions from natural-gas-pipeline transport are very segment specific, and vary according to pipeline infrastructure, compression-energy source, and segment distance. In order to define the related emissions for representative pipeline hauls in the absence of system specifications, Pace Global assumed pipeline-fuel consumption and both combustion and non-combustion CO_{2e} emissions based on EIA natural gas consumption data and data from the U.S. GHG Inventory, released by EPA in 2008. This data yielded an average fugitive emission loss rate of 1.7 percent (per unit volume), and fugitive emissions factor of 4,297 lbs of CO₂ per MMscfd. The emissions associated with combustion required to move natural gas was calculated to be 3,439 lbs of CO₂ per MMscd.

IEA 2008a. International Energy Agency. *Coal in Indonesia in 2006*, accessed January 2008.

<http://www.iea.org/Textbase/stats/coaldata.asp?COUNTRY_CODE=ID>

The coal profile for Indonesia in 2006 specifies the type of coal consumed and what it was combusted for. The table provided by IEA describes the volume of coal used in electricity plants as being 100 percent sub-bituminous. This information was necessary to calculate the emissions for Piton Energy as each coal type has a different emissions factor and heat-content value.

IEA 2008b. International Energy Agency. *Coal in Morocco in 2006*. Accessed January 2008.

<http://www.iea.org/Textbase/stats/coaldata.asp?COUNTRY_CODE=MA>

The coal profile for Morocco in 2006 specifies the type of coal consumed and what it was combusted for. The table provided by IEA describes the volume of coal used in electricity plants as being 100 percent bituminous. This information was necessary to calculate the emissions for Jorf Lasfar Energy as each coal type has a different emissions factor and heat-content value.

IFC 2008. International Finance Corporation (IFC). *Guidance Note 3: Pollution Prevention and Abatement*. July 31, 2007. Accessed January 2008.

<<http://www.ifc.org/ifcext/sustainability.nsf/Content/GuidanceNotes>>

This guidance note by the IFC provides suggested GHG emissions estimation methodologies for the energy and industrial sectors. The table in Annex A provides the capacity for electric-generating technologies (oil = 25MW, coal = 18MW, gas = 41MW) that would emit 100,000 metric tons of CO_{2e} per year. The table also provides the emissions factor that was applied to the electric generation projects for which no throughput or consumption volumes were available.

IFC 2012. International Finance Corporation (IFC). *Guidance Note 3: Resource Efficiency and Pollution Prevention*. January 1, 2012.

IPCC SAR WG1 1996, Houghton, J.T.; Meira Filho, L.G.; Callander, B.A.; Harris, N.; Kattenberg, A., and Maskell, K., ed., *Climate Change 1995: The Science of Climate Change, Contribution of Working Group I to the Second Assessment Report of the Intergovernmental Panel on Climate Change*, Cambridge University Press, ISBN 0-521-56433-6, p, 22.

IPCC 2006. 2006 IPCC Guidelines for National Greenhouse Gas Inventories, Prepared by the National Greenhouse Gas Inventories Programme, Eggleston H.S., Buendia L., Miwa K., Ngara T. and Tanabe K. (eds). Published: IGES, Japan.

Nye Thermodynamics Corporation. *Gas Turbine Specifications by Manufacturer*. Nuovo Pignone turbine specifications. Accessed January 2008.

<<http://www.gas-turbines.com/specs/manuf.htm>>

The project descriptions for Wilpro Energy Services (Pigap) and Wilpro Energy Services (El Furrial) indicate that the compression is driven by Nuovo Pignone Gas Turbines. Pace estimated energy requirements from compression levels depicted for each project and consulted specifications of the appropriately sized Nuovo Pignone gas turbines. Efficiency and other specifications of these turbines were collected from the Nye Thermodynamics Corporation website documenting gas turbine specifications by manufacturer.

OPIC 2007. Overseas Private Investment Corporation (OPIC). *2007 Greenhouse Gas Emissions Inventory Report*. March 2009.

<<http://www.opic.gov/doing-business-us/OPIC-policies/greenhouse-gas-accounting-reports>>

OPIC 2008. Overseas Private Investment Corporation (OPIC). *2008 Greenhouse Gas Emissions Inventory Report*. May 2010.

<<http://www.opic.gov/doing-business-us/OPIC-policies/greenhouse-gas-accounting-reports>>

OPIC 2009. Overseas Private Investment Corporation (OPIC). *2009 Greenhouse Gas Emissions Inventory Report*. May 2011.

<<http://www.opic.gov/doing-business-us/OPIC-policies/greenhouse-gas-accounting-reports>>

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<<http://www.opic.gov/doing-business-us/OPIC-policies/greenhouse-gas-accounting-reports>>

OPIC 2011. Overseas Private Investment Corporation (OPIC). *2011 Greenhouse Gas Emissions Inventory Report*. June 2013.

<<http://www.opic.gov/doing-business-us/OPIC-policies/greenhouse-gas-accounting-reports>>

Oil and Gas Journal. "Special Report: Worldwide Ethylene Capacity Increases 2 Million TPY in 2007," Volume 106, July 28, 2008.

No information was provided in the project description for the Equate Petrochemical project indicating its size or energy consumption. The average size of petrochemical facilities in the Middle East, of ~850,000 tpy, was sourced from the *Oil and Gas Journal*. Specific energy requirements and generation sources expected from a petrochemical facility of this size were sourced from the CEC report. This data enabled the qualified estimation of emissions from this project.

TAPSEIS. Trans-Alaska Pipeline System Environmental Impact Statement (TAPSEI). *Trans-Alaska Pipeline Environmental Impact Statement Document, Energy Requirements for Conservation Potential*.

February 15, 2001. Accessed January 2008.

<http://tapseis.anl.gov/documents/docs/Section_4_9_May2.pdf>

Energy-demand factors for crude-pipeline transport were sourced from documents associated with the Environmental Impact Statement for the Trans Alaska Gas pipeline in order to calculate GHG emissions for the Baku-Tblisi-Ceyhan Pipeline.

TCR 2008. The Climate Registry (TCR). *General Reporting Protocol Version 1.1*. May 2008. Accessed January 2008. <<http://www.theclimateregistry.org/downloads/GRP.pdf>>

The Climate Registry is the broadest-reaching registry in North America with participation from all Canadian provinces, six Mexican states, and 40 U.S. states. The Climate Registry's General Reporting Protocol is based on the WRI/WBCSD GHG Protocol, the "gold" standard in GHG Accounting and Reporting. Emission, heat content, and conversion factors from this document were used in the analysis (Table 12.1 and Appendix C).

TCR 2013. The Climate Registry (TCR). *2013 Climate Registry Default Emissions Factors*. January 2013. Accessed March 2014.

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